



Commonwealth of Massachusetts Department of Fish & Game

Mary B. Griffin, Commissioner

DIVISION of ECOLOGICAL RESTORATION

Tim Purinton, Director

Ebb&Flow

An electronic newsletter from the Massachusetts Division of Ecological Restoration

Ebb&Flow #19

March, 2014

An electronic newsletter from the Mass. Department of Fish and Game's Division of Ecological Restoration (DER)
<http://www.mass.gov/der>

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Greetings, restoration friends and colleagues:

Brrr! The frozen landscape continues to envelop rivers and wetlands throughout our region. Hopefully you have been able to get outside to enjoy the winter wonderland on skates, skis, snowshoes, and sleds!

Despite the frozen conditions, habitat restoration work continues at a rapid pace, with several construction projects underway, and other activities preparing for a busy field season ahead. Spring is right around the corner!

Fundraising for restoration projects is a perpetual DER activity regardless of the season, and you can read about DER's most recent fundraising success—\$1 million from the U.S. Fish and Wildlife Service for the Muddy Creek Estuary Restoration Project—in this [USFWS press release](#). In just the past six months, DER has helped secure competitive federal funding awards totaling over \$13.3 million to implement ecological restoration projects in MA.

In this issue of ***Ebb&Flow***, you will find a great lead article describing partnership efforts to protect and restore fisheries habitat in the North and South Rivers Watershed. Updates on several dam removal and tidal wetland restoration projects are also provided. You may also want to quickly check the items in the beginning of the [Grants](#) and [Calendar](#) sections, as several have deadlines and other dates that are fast-approaching.

Waiting (not so patiently anymore) for the sound of red wings and the first spring peepers...

Hunt Durey, Acting Director

Feature Article

Protecting and Restoring Wild Trout and other Fisheries Habitat in the North and South Rivers Watershed

*[The following article is adapted from an article written by Warren Winders and appearing in the Winter, 2014 edition of [Trout](#), the quarterly magazine of [Trout Unlimited](#). Thanks to Warren, Trout editor Chris Wood and Samantha Woods of the [North and South Rivers Watershed Association](#) for their help and permission for including the following material in **Ebb&Flow**.]*

Native Eastern Brook Trout are important indicators of stream health, as they are sensitive to pollution and temperature changes. It's a really good sign if a stream contains naturally-reproducing brook trout, because that means the stream is likely to support other sensitive aquatic organisms that share the trout's need for adequate flows of clean, cold water. Dams, development and other human impacts, particularly in the eastern portion of Massachusetts, have degraded many brooks and streams to such an extent that they no longer support trout and/or other "coldwater" fish species. Nevertheless, efforts are underway to restore trout habitat, as well as to identify and protect streams that still support wild trout populations. One of the areas in eastern Massachusetts that is a focal point for trout and other stream restoration and protection is the [North and South Rivers watershed](#).

The North River is a 13-mile long tidal river that drains a large area of the South Shore. At one time, the North River teemed with "salter" (sea-run) brook trout as well as river herring, smelt and striped bass. Early Colonial accounts even mention a run of Atlantic Salmon. While the North River itself remains free of dams, over 300 years of dam building on the North River's tributaries have isolated brook trout in the system's headwaters. Brook trout only have access to the tidal portion of the North River in a couple of smaller streams.

Conditions for resident and migratory fish are improving in the North River's watershed, though, thanks in part to an infusion of cash by the [Greater Boston Chapter of Trout Unlimited](#) (GBTU). The GBTU recently donated \$5,000 toward the removal of Tack Factory Pond Dam on Third Herring Brook, a tributary of the North River, which has wild brook trout within its system. Removing the Tack Factory Pond Dam will open up miles of Third Herring Brook to river herring, rainbow smelt and brook trout.



View (looking upstream) of the Tack Factory Pond Dam in Hanover, MA

For the herring and smelt, removing the dam will add miles of spawning water. For brook trout, the dam's removal means being able to access tidal waters for the first time in 200 years. To bring about the dam's removal, GBTU is joining a broad partnership headed by the [North and South River Watershed Association](#) (NSRWA). Already included in the partnership to remove the Tack Factory Pond Dam are the National Oceanographic and Atmospheric Administration (NOAA)'s [Restoration Center](#), the [Massachusetts Division of Ecological Restoration](#) (DER), the [Southeastern Mass. Chapter of TU](#), and the dam's owner, the [Cardinal Cushing Centers](#) of Hanover, MA.

The value of multiple dam removal, culvert replacement and other connectivity-restoring projects in the North and South Rivers watershed is further supported by the documentation of fish species that stand to benefit from these habitat improvements. This past fall, the NSRWA partnered with TU and the Mass. Division of Fisheries and Wildlife (DFW) to document the locations of native populations of Eastern Brook Trout in the watershed. Surveys conducted by the DFW confirmed the presence of Brook Trout in three locations: two tributaries to the Third Herring Brook, both upstream and downstream of the Tack Factory Pond Dam; and one to the Indian Head River: Iron Mine Brook, where the NSWA and its partners hope to remove a culvert blocking their passage.



Photo of one of the native Brook Trout encountered during a recent stream survey conducted by the Mass. Division of Fisheries and Wildlife. The presence of wild brook trout were confirmed in tributaries to the Third Herring Brook, both upstream and downstream of the Tack Factory Pond Dam.

At a recent tour of Tack Factory Pond Dam and Third Herring Brook for GBTU members, NSRWA Executive Director, Samantha Woods summed up the significance of GBTU's help this way: "We could not be happier about having GBTU on board for this project. Hopefully, this is just the start of a long and productive partnership." It's a partnership that means better days are coming for the wild brook trout of the North River and its tributaries.

[Click [here](#) and [here](#) for related stories on Third Herring Brook, and [here](#) to download an [NSRWA map of the Third Herring Brook watershed](#), showing the location of the Tack Factory Pond Dam, along with other barriers to fish passage where removals are being considered, proposed or already underway.]

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Division of Ecological Restoration News and Project Updates

Town Brook Restoration Project, Plymouth



View of the new bridge under construction over Town Brook at Off Billington Street in Plymouth.

Despite bitter cold temperatures, and almost weekly snowfall, work associated with the removal of the Off Billington Street Dam from Plymouth's Town Brook has been chugging along all winter. The dam itself was demolished in November. Since then, construction crews have erected a new bridge to serve residents accessing their homes from Billington Street. The new bridge (see above photo) is built to meet [Massachusetts' Stream Crossing Standards](#), and it will carry new water and sewer lines across the Brook. Just this month, workers began construction of the new channel through the former impoundment, after removing tons of contaminated sediment. Work will continue through Spring, with final planting anticipated in May.



View of the new Town Brook channel flowing through the former dam impoundment.

Town Creek Estuary Restoration Project, Salisbury

After six years of planning, permitting, and fundraising, construction is now underway at Town Creek Marsh, four miles upstream from the mouth of the Merrimack River in Salisbury, MA.

Town Creek is a tidal creek that enters the Merrimack River just west of the US Route 1 highway bridge crossing the Merrimack between Salisbury and Newburyport. The creek drains a large area of former salt marsh north of the river, as well as adjacent uplands. The main stem of Town Creek and the Town Creek salt marsh are crossed by an abandoned rail bed and US Route 1 (Bridge Road). The rail line, originally built in 1840, was discontinued in the 1960's. As a replacement for the original bridge over the creek, a granite culvert with a wooden flap-style tide gate was installed in the rail bed in the late 1800's to help protect upstream areas against flooding from the Merrimack River and from storm tides. The tide gate also prevented salt water from entering upstream tidal wetlands, resulting in severe impairment of these coastal habitats.

Major flood events in 2005, 2006, and 2007 overtopped the rail bed, flooded out several businesses, and closed Route 1 for days. In response, the Town partnered with state and federal agencies and local businesses to develop a habitat restoration and flood mitigation project for the Town Creek system. Project construction, which is now underway, will replace the existing culvert with two larger culverts utilizing modern tide control gates. The project will greatly reduce the risk of flooding to upstream properties by improving the town's ability to manage water levels within the system. The design will also enhance tidal flushing to 55 acres of the estuary, improving water quality and habitat conditions for many important species of fish, birds and other wildlife.

DER's partners on this project are the Town of Salisbury, Massachusetts Emergency Management Agency, Federal Emergency Management Agency, Massachusetts Office of Coastal Zone Management, US Fish and Wildlife Services, National Oceanic and Atmospheric Administration, Eight Towns & the Bay Committee, Conservation Law Foundation, and Massachusetts Audubon Society. Construction is expected to be completed this spring.



Construction crew installing a sheet pile cofferdam around the railroad bed culvert location at Town Creek in Salisbury.

The following project updates are from Alex Hackman at DER. Ebb&Flow readers are welcome to contact Alex for more information, questions, or comments at alex.hackman@state.ma.us or (617) 626-1548.

Millie Turner Dam Removal Project, Nissitissit River (Pepperell)



View of the Turner Dam's primary spillway (to be removed), looking upstream.

DER is working with many partners toward removal of this dam for the benefit of people, fish, and wildlife. Preliminary engineering design is now underway, with Gomez and Sullivan Engineers working on hydrologic and hydraulic modeling and developing our draft plan set. The modeling work will help the project team consider the size of the breach in the 110' foot long primary spillway that is needed to pass flood flows. Historical preservation efforts are part of the project, and we hope to save and preserve portions of the stone raceways, along with other steps to enhance future visitor experience and understanding of the site. We have a cultural resources consultant (Barbara Donahue) now on board as well, and she is investigating the history of the site. This work will help our team collaborate with the local historical society and commission to consider the best steps to honor the history of the site.

In the meantime, our agency partners at the Mass. Division of Fisheries and Wildlife (DFW) are working on plans to protect and relocate the population of endangered mussels (the Brook Floater) present in the area during and after dam removal. The dam removal will involve the downstream release of several thousand cubic yards of clean sediment – which will have a positive effect on downstream habitat quality (at present, there is very little sediment; it's all trapped behind the dam!). The mussels need to be moved out of the way until the sediment settles and habitat conditions stabilize. Recently, our team presented to the Pepperell Select Board (click [here](#) to read a recent news story about that). We expect permitting to start in April, and hopefully conclude by October or November. By then, we hope that fundraising success (3 grants proposals have been submitted) sets us up for a summer 2015 dam removal.

The Nissitissit River is a regional treasure, designated as an Area of Critical Environmental Concern, and mapped as BioMap2 Core Habitat by the Natural Heritage and Endangered Species Program. Thanks to a 2010 land purchase

by the DFW, the public will have the opportunity to enjoy this section of the river and the adjacent land (permanently protected as the [Nissitisset River Wildlife Management Area](#)) for years to come. The river and surrounding landscape is in great shape, thanks to the work of dedicated local groups and individuals, including the Nashoba Conservation Trust, Nashua River Watershed Association, and Mass. Outdoor Heritage Foundation. Particular thanks are due to the Squan-a-tissit and Greater Boston Chapters of Trout Unlimited, who generously provided funding support to help move the project along.

Tidmarsh Farms/Beaver Dam Brook Restoration Project (Plymouth)



Hearty souls brave the elements for the Tidmarsh Farms MEPA site walk in early February.

As planned, the Tidmarsh Farms project will restore approximately 250 acres of freshwater wetlands and 3.5 miles of stream channel across a large retired cranberry farm. This is one of the largest wetland restoration projects ever undertaken in Massachusetts, and includes two dam removals, about 100,000 cubic yards of earthwork, and installation of 50,000+ plants.

After an extremely detailed assessment and design phase (2010-2014), the project is now ready to formally begin permitting. An [Expanded Environmental Notification Form](#) (EENF) was submitted in January 2014 to begin regulatory and public consultation via the MEPA process. A project overview was presented to the Plymouth Conservation Commission on February 25 in advance of permit application submittal. Consultations with the Natural Heritage and Endangered Species Program, Mass DEP, and the U.S. Army Corps of Engineers have also been taking place as a precursor to permit applications.

In the meantime, the private landowners are coordinating a series of actions to ready the site for the big restoration effort. Large wood (fallen trees and stumps) are being collected and stored on site. During the restoration work, we hope to reintroduce approximately 3,000 pieces of large wood across the bog surface and within the restored stream channel. Seeds to grow ~10,000 Atlantic white cedar trees were collected, sorted, and now are being germinated. Botanists from the Arnold Arboretum and Northeast Native Habitats are assisting. Pre-restoration monitoring also continued under the organization of [Living Observatory](#) – an effort spearheaded by the landowners

to track ecological change at the site over the next 20 to 30 years. Thanks to partners from UMass Boston, UMass Amherst, MIT, Rising Tide Charter School, the Town of Plymouth, DFW and others for helping in this effort!

DER is excited to be part of this effort, working with a great team that includes the MA office of the Natural Resources Conservation Service (NRCS), NOAA, the U.S. Fish and Wildlife Service, Mass. Audubon, American Rivers, the Town of Plymouth, and many others (22 organizations in total!). Readers may consider attending the upcoming [Society for Ecological Restoration \(SER\) conference in April](#) (see more info in the **Calendar** section of this newsletter), where I will be presenting on the theory and science used to design the project.

Bartlett Pond Dam Removal, Wekepeke Brook (Lancaster)



Wekepeke Brook will soon rejoice, after having all this concrete removed!

Since our last update, the Town has completed a public bidding process and selected Kaszowski Brothers of Charlton to perform the dam removal. With permits in hand, design complete, and the construction contractor lined up...we just need to piece together the final funding to make the project happen. Thanks to hard work by the Town of Lancaster – and a successful application to the new state [Dam and Seawall Repair and Removal Fund](#) – it looks like we are finally there. The Town was selected to receive a no-interest loan to help complete the project, and along with a grant from DER (\$30k), appears poised to implement the project.

Removal of the dam will open up 18 miles of upstream habitat in Wekepeke Brook and tributaries, including areas mapped as BioMap Core habitat. The stream supports a native brook trout population. The project involves ‘in-stream sediment management’, which will allow the upstream channel to shape itself over time in a natural manner. Improvements to the adjacent Frommer Conservation Area will also be performed over several years. Thanks to the [Wekepeke Watershed Restoration Initiative](#), the Nashua River Watershed Association, and especially the Town of Lancaster for working to make this possible.

Stroud Dam Removal, Kinne Brook (Chester)



Field work last summer to prepare the dam for permitting and removal.

Permitting is now complete for this small dam removal along beautiful Kinne Brook, in the Westfield River Watershed. DER is partnering in this effort with numerous organizations, including Trout Unlimited, the Natural Resources Conservation Service (NRCS), the U.S. Fish and Wildlife Service, and American Rivers. Funding is in place, and the engineering designs are in the final review stage with the NRCS, which is funding the project. Like the Wekepeke Brook project, this dam removal does not include any channel construction. Instead, the stream will carry the small amount of sand and gravel behind the dam downstream over time, while forming a new channel. We're targeting a late April or early May start date.



Resources and Grants

Grant, Prize, Fellowship, Contest, Award, Fundraising, etc. Opportunities

(presented in rough chronological order by application/nomination/entry deadline)

The [UMass Keystone Project](#) is an intensive, 3-day, retreat-style training about **forest ecology and stewardship, wildlife management, and land protection**. The training consists of both indoor and field sessions, as well as informal time to learn from fellow participants. In addition, each participant is given substantial take-home resources. The Keystone Project educates forest owners and community leaders who have a significant impact on their communities. Keystone Cooperators can own forestland, be involved in the care and stewardship of a property, or be an active community leader. In return for this valuable educational opportunity, participants agree to return to their communities as a local resource and commit at least 30 hours of time to a conservation project(s) of their choosing. This spring, the program will take place on **Thursday evening, April 3rd**, through **Sunday afternoon, April 6th, 2014** at the [Harvard Forest in Petersham](#). The application **deadline** is **Monday, March 3rd**,

2014; click [here](#) to apply or contact Paul Catanzaro [cat@umext.umass.edu or (413) 545-4839] for more info. [Click [here](#) to read an article about the Keystone Program from a recent 'Trustees of Reservations' electronic newsletter.]

The Mass. Division of Fisheries and Wildlife (DFW) invites **farmers, woodlot owners, and other private landowners who want to actively manage their property to benefit wildlife** to apply for a [Landowner Incentive Program \(LIP\) grant](#). LIP is designed to reimburse private landowners up to 75% of the total project cost of managing lands to improve habitat for declining types of wildlife in the Commonwealth. Eligible applicants must successfully complete their proposed project by June 30, 2015. State and municipal agencies are **not** eligible for this funding. The application **deadline** is **March 7, 2014**; click [here](#) for more info and to access the application documents.

The Mass. Department of Environmental Protection (DEP) recently issued a “pre-RFR” announcement for the upcoming (FFY15) grant round for its [Section 319 Nonpoint Source Pollution Competitive Grants Program](#). The FFY15 NPS RFR will be issued on or about **April 1, 2014** and will be posted at [COMMBUYS](#), the Commonwealth’s new procurement site. Two pre-RFR meetings will be held at the [MassDEP Central Regional Office](#) on **March 6th** and **March 13th** from 10:00 AM to 12:00 Noon. The purpose of these meetings is to review project requirements and eligibility and to discuss FFY15 program priorities. Any other aspect of the program may also be discussed. Under state procurement regulations, Department and other EEA staff will **not** be able to discuss projects with proponents once the RFR is issued. Therefore, **potential applicants are urged to take advantage of the Pre-RFR meeting and all other opportunities to engage §319 program staff** [Jane Peirce, §319 Program Coordinator at (508) 767-2792 or Jane.Peirce@state.ma.us] **in discussion** about how to develop eligible, competitive projects, **prior to** the April RFR issuance. Click [here](#) for more background info on the §319 program.

The U.S. Environmental Protection Agency and the National Environmental Education Foundation (NEEF)’s [Climate Change in Focus Contest](#) asks **middle school students to produce a short video about why they care about climate change and what they are doing about it**. Winning videos will be highlighted on the EPA’s website, and the top 3 entries will receive cool prizes like a solar-charging backpack. The first 100 contestants to enter will also receive a year’s subscription to National Geographic Kids Magazine. The **deadline** for submissions is **March 10, 2014**; click [here](#) to submit an entry or for more info.

The [Massachusetts Preservation Projects Fund](#) (MPPF), administered by the [Mass. Historical Commission](#), is a 50% reimbursable matching grant program that supports the preservation of properties, **landscapes, and sites (cultural resources)** listed in the State Register of Historic Places. Applicants must be a municipality or nonprofit organization. The MPPF grant evaluation criteria were established by regulation (see [950 CMR 73.00](#)). The application **deadline** for 2014 proposals is **March 14, 2014**; click [here](#) for more info. [See also the [Johanna Favrot Fund for Historic Preservation](#) and the [Hart Family Fund for Small Towns](#), two similar (albeit smaller) funding opportunities, both with a **deadline** of **May 1, 2014**.]

The [Wildlife Conservation Society’s North America Program](#) recently announced its next round of grantmaking through the WCS’s [Climate Adaptation Fund](#). **Awards will be made to non-profit conservation organizations for applied, on-the-ground projects focused on implementing priority conservation actions for climate adaptation at a landscape scale**. Interested organizations should carefully review the information outlined in the [Request for Proposals](#) (RFP) and the [Applicant Guidance Document](#) for instructions. To apply, a [2014 Pre-proposal application form](#) must be submitted to Darren Long at dlong@wcs.org no later than 5:00 PM MST on **Friday, March 14, 2014**. In the meantime, direct any questions to Kathryn Dunning at kdunning@wcs.org.

The U.S. EPA is (until **March 14, 2014**) seeking nominations for individuals to serve on its [Environmental Financial Advisory Board](#) (EFAB). Members of EFAB provide advice and recommendations to EPA on a wide range of issues including: reducing the cost of financing environmental facilities; creating incentives to increase private investment in the provision of environmental services; identifying financing approaches specifically targeted

to small/disadvantaged communities; and increasing the total investment in environmental protection of public and private environmental resources to help ease the environmental financing challenge facing our nations. Click [here](#) to read the Federal Register notice regarding how to nominate someone for the EFAB, or contact Vanessa Bowie, Director, U.S. EPA Center for Environmental Finance, at ocfoinfo@epa.gov.

The mission of the [Environmental Leadership Program](#) (ELP) is to support visionary, action-oriented, and diverse leadership for a just and sustainable future. ELP catalyzes change by providing talented individuals early in their careers with the support and guidance they need to launch new endeavors, achieve new successes, and rise to new leadership positions. ELP is currently seeking applicants to its 2014 class of [New England Regional Fellows](#). The application **deadline** is **March 17, 2014**; click [here](#) to apply and [here](#) for more info.

Launched in 2013, the [Open Space Institute](#) (OSI)'s [Resilient Landscapes Initiative](#) seeks to preserve climate change-resilient landscapes in the eastern U.S. by providing technical and financial assistance to protect land in specific regions deemed to be suitable for this purpose (click [here](#) for a map). OSI will award matching grants to projects that permanently protect resilient habitat through the acquisition of land or easements. The Massachusetts portion of one of the targeted regions, labeled the "[Middle Connecticut River](#)", includes over 100 square miles, running more-or-less south to north into VT, and encompasses portions of the **Westfield, Deerfield and western Connecticut River** watersheds. The current grant round for this program closes on **March 18, 2014**; the subsequent grant round is expected to take place 6-9 months from now. Click [here](#) or contact Jennifer Mellville [jmelville@osiny.org, (207) 846-9700] for more info.

The **Mass. Executive Office of Energy and Environmental Affairs** (EEA) invites nominations for the [2014 Secretary's Awards for Excellence in Energy and Environmental Education](#). You are encouraged to nominate a school program, teacher and students who are participating in exemplary energy and environmental education projects. The Secretary's Advisory Group on Energy and Environmental Education (SAGEE) will review nominations through the beginning of April. Winners will be notified in April along with an invitation to attend a formal ceremony at the State House, at which award winners will be recognized by EEA Secretary Rick Sullivan. Winners will also receive certificates of excellence, honor and merit. The nomination **deadline** is **March 28, 2014**; click [here](#) for more info, [here](#) to access the 2014 nomination form, [here](#) to see past awardees, or contact Meg Colclough [(617) 626-1110, Meg.Colclough@state.ma.us] for more info.

On behalf of the Secretary of the Mass. Executive Office of Energy and Environmental Affairs, the Mass. Department of Environmental Protection (DEP) implements the [Massachusetts Natural Resources Damages \(NRD\) Program](#), a program to assess natural resource damages (NRD) resulting from releases of oil or hazardous materials within the Commonwealth and to **require restoration of these injured resources to functional ecological systems**. The NRD Program recently announced that the posting for Request for Responses (RFRs) for two grant opportunities are expected within the next month: the [Housatonic River Land Acquisition to Conserve Habitat](#) and the [Sudbury River Corridor Land Acquisitions](#), both expected to be issued on **March 28, 2014**. Click [here](#) or contact Karen Pelto [(617) 292-5785, Karen.Pelto@state.ma.us] for more info.

The [Gulf of Maine Council on the Marine Environment](#) is currently seeking nominations for its annual [Visionary, Longard, Susan Snow-Cotter Leadership, Industry, and Sustainable Communities Awards](#). Visionary Awards will be presented to one individual and one organization in each state and province bordering the Gulf. The Longard Award will be presented to an outstanding volunteer within the Gulf watershed. The Susan Snow-Cotter Award will recognize a coastal management professional who exemplifies outstanding leadership or exceptional mentoring in the Gulf of Maine watershed. The Industry Award will go to a business that has shown leadership in efforts to improve the well being of the Gulf of Maine ecosystem. The Sustainable Communities Award will go to a community or group within a community that exemplifies a sustainable environment and economy. Click [here](#) to nominate someone or for more info; the **deadline** is **March 30, 2014**.

The Baltimore, MD-based [Gadfly Project](#) (TGP) was formed to provide organizations with socially conscious operations with custom software development services they need to function more effectively and more efficiently.

Among these services is the development of geographically-based software systems. TGP is currently seeking proposals from organizations that can demonstrate novel uses for Geo-based Web Applications that will be developed for any use that simultaneously progresses the mission of TGP and the proposing nonprofit. The winning proposal will receive an **in-kind grant** that will have a magnitude of between \$10,000 and \$40,000. The application **deadline** is **March 31, 2014**; click [here](#) for more info. [Click [here](#) for info on TGP's Custom Web and Mobile Application Development (CWMAD) In-Kind Matching Grant, for which applications are accepted on a rolling basis.]

[Wildlife Forever's State-Fish Art Contest](#), now in its 16th year, is a conservation education program combining art to catch the imagination of students and science to foster discovery of the natural world and increase awareness of and respect for aquatic resources. Kids in grades 4-12 are invited to submit artwork based on their state's official fish (Massachusetts' is the Atlantic Cod). The contest entry **deadline** is **March 31**; click [here](#) for more info.

The **Friendship Fund** (no web page) makes grants (generally in the \$1-5,000 range) to a variety of cultural, educational and environmental organizations for general and project support, in various locations in the U.S., including Rhode Island and southeastern Massachusetts. Groups seeking funding should have 501(c)(3) tax-exempt status and should prepare a concise statement of the purpose for which the grant is sought. Send it to: Susan Haff, Friendship Fund, c/o GMA Foundations, 77 Summer St., 8th Floor, Boston, MA 02110. Telephone: (617) 426-7080. The annual application **deadline** is **April 1**.

The **Seth Sprague Educational and Charitable Foundation** (no web page) gives primarily to a wide range of cultural, educational and environmental organizations in several regions, including **greater Boston and Cape Cod**. Types of support include general operating and project support. Grants range in size from \$2,000 - \$20,000, but can occasionally be considerably larger. Interested applicants should submit a request with the following information: a three- to five-page proposal describing the mission of the organization, the specific population served, and the expectation of the outcome of the project for which funds are requested; a budget for the program; the most recent financial statement (preferably audited); a copy of the most recent Form 990; and, a list of the organization's board members. Send it to: Ms. Gloria Shuler, Grants Administrator, Seth Sprague Educational and Charitable Foundation, c/o Christine O'Donnell, U.S. Trust, 114 West 47th Street, NY8-114-18-02, New York, NY 10036. (646) 855-3195 (voice), (646) 855-5463 (fax). The annual application **deadlines** are **April 1** and September 1.

The aim of [Mutual of America's 2014 Community Partnership Award Competition](#) is to recognize the important contributions that nonprofit organizations, in partnership with public, private and other social sector organizations, make to society. Each of the award recipients must demonstrate the difference the partnership has made, show the ability of the partnership to be replicated and to stimulate new ideas in addressing social issues, as well as illustrate the partnership's commitment to advancing the mission and principles of the organization. Mutual of America presents a number of grants, and \$25,000 is awarded to the winning organization each year. In addition, a video of the award-winner's project will be produced, featuring the principals involved and explaining the program in detail. The application **deadline** is **April 1**. Click [here](#) to view the 2014 Award guidelines; [here](#) to download an application; and, for additional questions, contact: Mr. Thomas Gilliam, Chairman & CEO, Mutual of America Foundation 320 Park Avenue, New York, NY 10022-6839, at (212) 224-1147 or (212) 207-3001 (fax).

A new [Green Infrastructure for Coastal Resilience Pilot Grant Program](#), managed by the [Mass. Office of Coastal Zone Management](#) (CZM), will offer \$1.3 million in grant funding to coastal cities, towns, and nonprofit groups to reduce or eliminate risks associated with coastal storms, erosion, and sea level rise. As part of Governor Deval Patrick's \$50 million investment in comprehensive climate change preparedness initiatives, the program will provide funding and technical resources for natural approaches to address coastal erosion and flooding problems. **Grants can be used for planning, feasibility assessment, design, permitting, construction, and monitoring of green infrastructure projects that use natural approaches instead of hard structures such as seawalls and revetments.** Applicants may request up to \$500,000 in funding and **all 78 coastal communities in the Commonwealth as well as non-profit organizations with vulnerable coastal property that is open and accessible to the public, are eligible.** To view the Request for Responses (RFR), visit the [Comm-PASS website](#)

and search for solicitation number “ENV 14 CZM 07.” The application **deadline** is 5:00 PM on **Friday, April 4, 2014**; click here or on the [EEA press release](#) for more info.

The Boston-based [Pioneer Institute](#)’s [Better Government Competition](#) is an annual citizens’ idea contest that attracts the interest of experts and citizens across the U.S. The [2014 Better Government Competition](#) seeks technological solutions to create greater efficiency, transparency, cost-effectiveness, and higher quality service in the public sector. Listed among the potential topics for applicants to consider is the “**use of technology to address environmental concerns including water and air pollution, waste management, deforestation, resource depletion, and alternative energy development and conservation**”. The contest is open to all people and organizations -academics, non-profits, entrepreneurs, government officials, and interested citizens. The Competition grand prize winner is awarded \$10,000; three runners-up receive \$1,000 each. The **deadline** to enter is **April 7, 2014**; click [here](#) to apply, and [here](#) or contact Shawni Littlehale [slittlehale@pioneerinstitute.org, (617) 723-2277 ext. 207] for more info.

[Community GrovesSM Grants](#), sponsored by the [Alliance for Community Trees](#) (ACTrees), provides funding to **help local organizations grow fruit and nut trees**. In 2014, ACTrees is pleased to offer grants up to \$2,500 for ACTrees members to plant Community GrovesSM in their communities. Grants require a 1:1 non-federal match. The **deadline** for submissions is **Friday, April 11, 2014**, at 11:59 PM Eastern time. Click [here](#) or contact the ACTrees office [(202) 291-8733 or Programs@ACTrees.org] for more info.

The Mass. state office of the Natural Resources Conservation Service (MA NRCS) is now accepting applications from state and local units of government, federally recognized Tribes, and non-governmental organizations for the [Farm and Ranch Lands Protection Program](#) (FRPP). FRPP provides up to 50 percent matching funding for the **purchase of conservation easements on agricultural lands**. Entities eligible for FRPP funding have a farmland protection program that purchases agricultural conservation easements for the purpose of protecting agricultural use and related natural resource conservation benefits. [Note that, in Massachusetts, FRPP funding is closely tied to the state’s **APR** (Agricultural Preservation Restriction) **Program**, administered by the Mass. Dept. of Agricultural Resources; click [here](#) for more info.] Applications for FRPP funding must be submitted by 4:30 PM on **Friday, April 11, 2014** to the NRCS State Office, 451 West Street, Amherst, MA, 01002. Click [here](#) or contact Barbara Miller, State Resource Conservationist, at (413) 253-4380 or barbara.miller@ma.usda.gov for more info.

The [National Wildlife Refuge Friends Group Grant Program](#), an initiative of the National Fish and Wildlife Foundation, funds projects that assist organizations in being effective co-stewards of important natural resources within the [National Wildlife Refuge System](#). The program’s goals are to help refuge Friends organizations develop projects, expand their capacity and skills, meet local refuge challenges, gain community support, and build long-term relationships. Grants, ranging from \$1,500 to \$5,000, are provided for start-up expenses, capacity building, project support, and Friends peer-to-peer coaching. Proposals must be submitted by **April 14, 2014**; Click [here](#) to read the Request for Proposals.

The Boston-based [John H. and H. Naomi Tomfohrde Foundation](#) makes grants to support the work of charitable institutions, organizations and agencies in New England that are dedicated to the cultural, social and civic betterment of the community and particularly which foster the advancement of higher education, the classic arts, scientific research in biomedicine and the improvement of community health. In 2014, the Foundation will focus the majority of grants on programs and projects that address the educational, economic and community health needs in the following **Massachusetts Gateway Cities: Brockton, Chelsea, Fall River, Lawrence, Lowell, Lynn and New Bedford**. The Trustees may continue to make grants in other areas, but on a limited basis. The remaining 2014 **deadlines** for Preliminary Application-Concept Cover letters are **April 15th** and August 15th; click [here](#) or contact Grants Coordinator Susan T. Monahan [(617) 951-1108, smonahan@rackemann.com] for more info.

The [Conservation Partners Program](#), managed by the National Fish and Wildlife Foundation, seeks to increase technical assistance capacity to implement three programs: [NRCS’s Landscape Conservation Initiatives](#), NFWF’s

Keystone Initiatives, and the NRCS-U.S. Fish and Wildlife Service partnership – [Working Lands for Wildlife](#), as well as maximize benefits to the three programs listed above within certain identified Program Priority Areas (PPAs – click [here](#) for a map). Typical grant awards will range from \$50,000 to \$200,000. Click [here](#) to read the Request for Proposals. A webinar to review the grant process, program goals and answer questions will be held **March 6, 2014 2:30-3:30 PM EST** and will be available on the [Conservation Partners website](#) throughout the RFP cycle. Pre-proposals are **due on April 17, 2014**, and applicants invited to submit full proposals are **due on June 23, 2014**.

The Nature Hills Nursery 2014 [Green America Awards Program](#) honors **non-profit community groups who make their local neighborhoods better places to live by planting trees, bushes and shrubs**. Applications will be accepted nationwide until **April 17, 2014**. From all of the entries, eight semi-finalists will be selected by Nature Hills Nursery and posted to the Green America Awards tab at the [Nature Hills Nursery Facebook page](#), where Facebook voting in May will determine the winners. Click [here](#) for more details and [here](#) to access and fill out the online application. [Click [here](#) for a similar grant program (not involving Facebook voting) called [GRO1000](#).]

The purpose of the Berkeley, CA-based [Impact Fund](#) grant program is to support **public interest litigation** in the areas of civil and human rights, poverty law, and **environmental justice**. The Fund focuses on litigation that will potentially benefit a large number of people, lead to significant law reform, or raise public consciousness. Grants averaging \$5,000 to \$15,000 are made to private attorneys, small legal firms, and nonprofit legal entities that do not have sufficient access to funding sources. There are [four funding cycles](#) each year; the next one begins Monday, March 31, with **pre-applications due Monday, April 28** (noon PST) and (if invited) full applications due Thursday, May 8 (5:00 PM PST). Click [here](#) to read the grant criteria and [here](#) to read the FAQ page.

The Kelso, WA-based [Fund for Wild Nature](#) “invests in **cutting-edge grassroots organizations and innovative conservation efforts** in the U.S. and Canada that meet emerging needs for protecting biodiversity and wilderness”. The Fund provides small grants (in the \$1,000-\$3,000 range) for **campaigns to save native species and wild ecosystems**, with particular emphasis on actions designed to **defend threatened wilderness and biological diversity**. The Fund supports biocentric goals that are premised on effective and intelligible strategies, and gives special attention to ecological issues not currently receiving sufficient public attention and funding. All projects must be highly cost-effective, and the Fund **rarely** supports proposals from organizations with large budgets (over \$250,000 annually). The Fund supports advocacy, litigation, public policy work, development of citizen science, and similar endeavors. The Fund does **not** support basic scientific research, private land acquisition, individual action or study, conferences, **or** organizations which receive any government funding. Click [here](#) to read the grant guidelines and application instructions; the two annual application **deadlines** are **May 1** and November 1.

The [American Wildlife Conservation Foundation](#) (AWCF) “provides grants supporting research and public education towards enhancing scientific wildlife management, and conservation of wild habitats in North America, with an **emphasis on New York State**. Our goal is to insure that wild animals and the ecosystems sustaining them will thrive for the long term, conserved for the enjoyment of present and future generations.” Funding priority is given to **research and public outreach projects** which focus on **wildlife-habitat relationships**, or **human-wildlife interactions**. Prospective grant seekers will need to print out and fill out original and five copies of the [two-page application form](#) and mail by the **application deadline of May 1** to: John Hasenjager, Grants Comm. Chair, American Wildlife Conservation Foundation, 5698 State Route 23, Cincinnatus, NY 13040. [Email: jhas@frontier.com]

The [Sounds Conservancy Grants Program](#) is dedicated to supporting the conservation and restoration of the sounds of Long Island, Fishers Island, Block Island, Rhode Island, Martha’s Vineyard, and Nantucket and their adjacent coastlines in Connecticut, Massachusetts, New York, and Rhode Island. The program encourages and supports projects that lead to improved marine and coastal resource management with funding up to \$2,500 available to university, college, and high school students, private individuals, and nonprofit organizations. Applications must be **postmarked by May 1**; click [here](#) or write to sounds@qlf.org for more info.

The [Citizens’ Institute on Rural Design](#) (CIRD), a leadership initiative of the [National Endowment for the Arts](#), works with **rural communities of 50,000 or less to enhance their quality of life and economic vitality through**

facilitated design workshops. [CIRD's Workshop Program](#) brings together local leaders, nonprofits, and community organizations with a team of specialists in design, planning, and creative placemaking to address challenges such as strengthening local economies, enhancing rural character, leveraging cultural assets, and designing efficient housing and transportation systems. Each community selected to participate in the program will receive \$7,000 to support planning for and hosting a two-day workshop, and will be required to provide approximately \$7,000 in matching funds (cash or in-kind). CIRD will work with the communities to assemble teams of specialists based on the communities' individual needs. In addition, workshops will be augmented with conference calls and webinar presentations open to the public and led by experts on topics related to rural design. Click [here](#) for eligibility and proposal guidelines, and [here](#) to read the FAQ; the **deadline** to apply is **May 6, 2014**.

Environmental activist [David Brower](#) was quoted as saying, "I love to see what young people can do, before someone old tells them it's impossible." The [Earth Island Institute's Brower Youth Award for Environmental Leadership](#), created in 2000 in Brower's honor, recognizes the outstanding leadership efforts of young people who are working for the protection of our shared planet. The Award elevates the accomplishments of these new leaders and invests in their continued success by providing ongoing access to resources, mentors, and opportunities to develop leadership skills. Each of the six recipients of the Brower Youth Awards will receive a \$3,000 cash prize, a professionally produced short film about their work, and flight and lodging accommodations for a week-long trip to the San Francisco Bay Area. The application **deadline** is **May 12, 2014**; click [here](#) for more info.

The [U.S. EPA's National Aquatic Resource Survey \(NARS\) Campus Research Challenge](#) gives **undergraduate and graduate students** the opportunity to use [NARS data](#) (such as the [Draft National Rivers and Streams Assessment 2008-2009 Report](#)) **to conduct further scientific research and analysis**. EPA will award up to \$50,000 in two phases, with prizes of \$2,000 in phase one and \$5,000 in phase two. In addition, winners will receive national recognition for their university, students and project by being featured on the National Aquatic Resource Surveys Campus Research Challenge website. Winners may be offered opportunities to speak on webcasts, at meetings, or at other events. The application **deadline** is **May 15, 2014**; click [here](#) or write to nars-challenge@epa.gov for more info (including a **Q&A webcast** about the Challenge, which will be held in March).

The [Mazda Foundation](#) supports nonprofit organizations in company communities throughout the U.S. (click [here](#) for MA/RI/CT locations) in the areas of education and literacy (including programs for children and youth), **environmental conservation**, cross-cultural understanding, social welfare and scientific research. Grant seekers must fill out a short application form and submit it any time **between May 1 and July 1**. The company reviews the applications in August, and organizations that have submitted an application that is of interest to the Foundation will then be required to submit a formal proposal. Click [here](#) to download the application form and [here](#) for more info.

The [Captain Planet Foundation](#), in partnership with the [Ray C. Anderson Foundation](#), is accepting applications from schools and nonprofit organizations for its [Ecotech Grant Program](#), a new initiative to support projects that motivate children through science, technology, engineering, and math while challenging them to reimagine the way their world can be. Sixteen grants of \$2,500 each will be awarded to schools or nonprofit organizations for projects that use innovation, nature-based design, or technology to address environmental problems in their communities. Ideal projects will integrate environmental education with opportunities for children to solve real-world problems using technology and best science practices. Preference will be given to applicants who have secured \$2,500 in matching funds or in-kind contributions. In addition, priority will be given to student-directed projects which provide materials that make the project easy to replicate, including lesson plans, protocols, videos, adaptations, and examples of student work. Applications are accepted on a rolling basis from **now until May 31, 2014** (as funding allows) for projects to be conducted this summer and fall.

The Austin, TX-based [Rachael and Ben Vaughan Foundation](#) awards grants in the areas of education, **environmental preservation**, health care, human rights, poverty reduction, religious support, and substance abuse. The Foundation invites organizations to submit a one-page **Grant Request Application** that describes a specific project in one of the above areas. Grant requests may range between \$2,000 and \$20,000. The implementation of

the project should require no more than twelve months. While the Foundation's grants largely support work in Texas, it has no geographic limit as the location of the recipient or the project. However, no matter the location, the Foundation encourages grant requests for programs that serve local residents, do not duplicate the efforts of other organizations, minimize administrative fees and will continue to produce benefits after the official date of completion. The annual **deadline** for submitting a Grant Request Application is **June 1**; click [here](#) to download the appropriate forms or for more info.

The purpose of the NH-based [Fuller Foundation](#), a family foundation, inspired by its forward-thinking founder, [Alvan T. Fuller](#), is to **support non-profit agencies which improve the quality of life for people, animals and the environment** (click [here](#) for more details). Its geographic focus area is predominately the **Greater Boston area** (communities inside Route 128) and the immediate seacoast area of New Hampshire. While the Foundation is willing to provide seed grants to new organizations who do not have a financial history, the Foundation requires that these organizations have a sound business plan with an active, contributing Board of Directors, and have a financial plan for sustaining their mission and building their funding base that does not continuously rely on Fuller Foundation support. Organizations seeking funding should click [here](#) to read the application procedures. There are two **application deadlines** each year: January 15 and **June 15**.

The [DanPaul Foundation](#) assists nonprofit organizations and programs anywhere in the U.S. that teach youth how to use the tools they'll need in life through offering opportunities for enrichment, growth, and personal social responsibility. Specific areas of interest for the Foundation include programs that **encourage youth to be concerned and informed about the environment and the underprivileged, particularly with regard to clean air and water**, and adequate housing and nutrition for all, and scientific endeavors that enhance the quality of life for everyone. Requests for funding are reviewed quarterly. Click [here](#) to access the Foundation's guidelines, application form and checklist, and related documents, and click [here](#) for more info.

The mission of the [Hannaford Charitable Foundation](#) (HCF), the charitable giving arm of the Hannaford supermarket chain, is "to invest in **creating and sustaining healthy communities** in the five-state area of our business [ME, NH, MA, VT and NY]. We do so through providing financial support to nonprofit organizations and programs that focus on improvement of the root causes impacting the quality of life for our customers, associates, and neighbors. Our areas of focus for financial support are Food, Education, and Health [e.g., promoting healthy lifestyles] ... In determining which organizations and programs to support, the Foundation considers the impact and outcomes to the community, prior support from HCF, and relative uniqueness of the program versus others in the community. Preference for funding is given to those that have the potential of providing ongoing services for a large segment of our customer base and communities." Click [here](#) for more info and [here](#) for application instructions.

The New Bedford-based [Garfield Foundation](#) supports initiatives that are designed for collective impact to accelerate systemic-level change, with the ultimate goal of a more equitable, prosperous, and sustainable world. The Foundation provides support to nonprofit organizations in two areas: **Environment** (including projects that address global climate change, loss of critical biodiversity, rising levels of toxic metal pollution and unsustainable resource production and consumption); and **Community Revitalization** (including projects that promote economic prosperity in distressed urban communities, such as projects that connect underserved groups to employment opportunities, with preference given to opportunities in the emerging "clean economy"). Preference is given to projects that are demand-driven and integrate environmental sustainability. Geographically, the Foundation prioritizes **older industrial cities and the urban areas of Massachusetts and New Jersey**. While the Foundation does not accept unsolicited proposals, [prospective grant seekers are invited to submit a brief email summarizing their project](#). If there is sufficient interest in a project, the Foundation will provide specific proposal guidelines.

The mission of the Boulder, CO-based [Access Fund](#) is to advocate to **keep U.S. climbing areas open and conserve the climbing environment**. Six core programs support this mission: [Climbing management policy](#); [Local support & mobilization](#); [Stewardship & conservation](#); [Land acquisition & protection](#); [Risk management & landowner support](#); and [Education](#). Many climbing areas across the U.S. are either located on, or require access

across, private property. When access is threatened or when a narrow window of opportunity presents itself, the climbing community must act swiftly to protect valuable climbing resources and environments. For this reason, **the Access Fund provides resources for direct acquisitions, easements and other land conservation tactics** through its [Access Fund Land Conservation Campaign](#) and its [Climbing Preservation Grants Program](#). Through both of these programs, local climbing communities can tap into resources to help equip them to successfully protect and manage private land. These resources include guidance on everything from strategic planning, transaction management, due diligence, private and public fundraising, liability protection, property management, neighbors, parking, waivers, trespassing, and much more. While it is the Access Fund's first priority to support and empower local organizations to protect climbing areas by providing short-term capital, transaction expertise, and other resources, the Access Fund realizes not all climbing areas have a local community to act as stewards. In special circumstances, the Access Fund will consider holding property on behalf of the climbing community (visit the [AF Land Holdings](#) page to learn more). Those seeking support in protecting access to climbing areas should click on the links above or contact Access Director, Joe Sambataro, at joe@accessfund.org for more info.

The [Santander Bank Foundation](#) makes charitable contributions to 501(c)(3) non-profit organizations **serving low- and moderate-income individuals and communities**. "Community Investment" (which includes environmental organizations and projects) is one of the Foundation's funding priorities. Organizations seeking funding need to submit a [Grant Proposal Cover Sheet](#) along with a narrative proposal (not longer than two pages); a copy of the organization's current budget and budget for the specific program, identifying any committed and pending support for the program; a list and professional identification of the organization's Board of Directors; and a copy of the organization's Federal IRS 501(c)(3) tax determination letter and Taxpayer ID Number. There are three grant rounds each year; click [here](#) for more info on the current grant round and for the address to which completed applications should be sent.

The energy company [TransCanada](#) supports community projects through [grants](#) as well as through its [employees](#), with **Environment** being one of its [focus areas](#). Applications for funding are made online by filling out a form supplied for that purpose, with the option to attach supporting documents (such as your written proposal, or any other supporting materials that will help TransCanada evaluate your application) at the end of the application process. Click [here](#) to apply or for more info, or write to community_investment@transcanada.com or call (toll-free) (800) 661-3805 with any questions.

The [Irving Oil Company's Corporate Donation Program](#) makes grants in [areas served by the company](#), which includes New England and adjacent areas in the U.S. and Atlantic Canada. Among the company's stated funding priorities is **Environment**: "Support is provided for environmental programs that help to protect the earth that we all share." Prospective grant seekers are invited to contact the Irving Oil Donations and Sponsorship Committee [(506) 202-2000 or webinquiries@irvingoil.com] to get more info about funding eligibility, guidelines, deadlines, etc.

[Charitable giving/volunteering programs](#) associated with the **Macy's** department store chain include the [Macy's Foundation](#), which includes the **environment** as one of its focus areas; and the [My Macy's District Grants](#), which are intended for local groups active in the [communities where Macy's has stores](#), and also includes the **environment** as a focus area. While requests for funding for a District Grant may be submitted at any time (start by [taking the online eligibility quiz](#)), proposals to the Macy's Foundation are accepted on an invitation-only basis. That said: organizations interested in being invited to apply could send an e-mail to foundationapps@macys.com, including the organization's name, address, mission, and a brief description of the funding request; and if the Foundation then wishes to invite you to submit a proposal, they will point you to the proper application form.

The [Coca-Cola Foundation](#), the company's primary philanthropic arm, makes grants throughout the year to projects and organizations around the globe to "support initiatives and programs that respond in a meaningful way to community needs and priorities". Among the Foundation's priority areas are **Water Stewardship** (to support access to clean water and sanitation, watershed protection in water-stressed regions, utilization of water for production and or multiple use systems that do more than provide clean drinking water, education and awareness programs that promote water conservation within communities and industry) and **Healthy and Active Lifestyles**

(to support access to exercise, physical activity and nutritional education programs, programs that motivate behavior modification, and programs that encourage lifestyle/behavioral changes). Groups seeking grants or community sponsorships should first click [here](#) to see which projects the Foundation **does not** support, and to read the [FAQ page](#), and then [here](#) to answer the eligibility quiz and begin the online application process.

The [World We Want Foundation](#) promotes and supports **Young Global Citizens** making positive social change in their communities and around the world. The Foundation supports these young agents of change by building a dedicated network of Partner Organizations and Mentors, operate a crowdfunding platform devoted solely to young social changemakers, co-fund in every micro-grant to support their Projects, and showcase and share their Stories of Social Impact to inspire and educate others. Read the [Foundation's FAQ page](#) or this [brief article](#) from the *Philanthropy News Digest* for more info.

The mission of the Boston-based [Barr Foundation](#) is “to support gifted leaders and networked organizations working in Boston and beyond to enhance educational and economic opportunities, to achieve **environmental sustainability**, and to create rich cultural experiences - all with particular attention to children and families living in poverty” (click [here](#) to read more about the Foundation's domestic and international funding strategies and priorities). The Foundation also supports a [Barr Fellows Program](#), enabling selected nonprofit leaders to take a three-month sabbatical and cultural exchange. Groups wishing to be considered for funding should click [here](#) for info on how to submit an [inquiry form](#), and, if invited by Barr Foundation staff, guidelines for submitting a formal proposal.

The NH-based **Penates Foundation** (no web page) makes grants to environmental organizations and other charities located in New Hampshire, Maine, Massachusetts and elsewhere. The Foundation's areas of interest include: arts and culture, including the performing arts and museums; children and youth; civic affairs; education; **environmental preservation**; health; and social services. Types of support include general support, project support, land/property acquisition, building funds and equipment. Interested applicants should submit a written request that includes a description of the organization, the purpose for which funds are being requested, and the amount of the request. Applicants should also include a copy of the IRS letter confirming tax-exempt status. Send it to: Ms. Michele M. Cogan, Administrator, Penates Foundation, One Liberty Lane East, Suite 100, Hampton, NH 03842. Telephone: (603) 926-5911

The goal of the Maryland-based [Corfu Foundation](#) “is to serve a catalytic role in funding seed projects and innovative ideas that may fall outside the parameters of mainstream philanthropy.” The Foundation supports preventive, holistic approaches that target four areas of interest: Spiritual expansion; **Ecological sustainability**; Mind/body well-being; and Leadership. The Foundation funds research, workshops, conferences, and the production of documentaries and books that align these core areas of interest (click [here](#) to see profiles of past grant recipients). While the Foundation accept grant proposals by invitation only, prospective grant seekers are welcome to **submit a one-page Letter of Intent at any time** which includes: individual/organization's name, address, website, and key contact person; description of the project and the need it serves; how the project aligns with the Corfu Foundation's mission; and the amount of funding you are applying for and how you would allocate it. Send the letter to info@corfufoundation.org.

The mission of the Maryland-based [Koinonia Foundation](#) is “to empower, **at a grass roots level**, other non-profit organizations that seek to **improve the environment**, make the best of human resources, and/or have a strong spiritual (non-denominational) background.” The Foundation's board is particularly interested in proposals that “suggest a sense of the sacred, the interplay of caring hearts, an urgency for change, the redemptive potentialities of life, and a sound conceptual base and likelihood of successful implementation” and “that teach fishing rather than offer fish”. While proposals are considered on an ongoing basis, grant awards (where made) are relatively small (less than \$3,000). Click [here](#) to apply for a grant or for more info.

The Colorado-based [Change Happens Foundation](#) awards grants to forward-thinking non-profits engaged in worthwhile projects in science & medicine, education, social justice, arts & culture, community services, and the

environment (click [here](#) to see a list of current and past grantees). While unsolicited proposals are not accepted, eligible organizations (click [here](#) for eligibility guidelines) may submit an [online letter of inquiry](#) (LOI) at any time, and if your project is accepted for further consideration, you will be asked to submit a formal grant proposal. Write to admin@changehappens.us for more info. [Click [here](#) to read advice on LOI drafting from *The NonProfit Times*.]

The **Good Works Institute** (no web page), an independent foundation, provides grants to small nonprofit organizations that are working toward the health and welfare of children and the **preservation and protection of the environment**. Factors that are considered in reviewing grant applications include, but are not limited to, the following: future independent sustainability of program; future impact of program; training and education; and overall community impact. Application guidelines and related info are available from the Institute by contacting Ms. Ann M. Down, President, Good Works Institute, P.O. Box 1811, Sun Valley, ID 83353, (208) 726-4421, (208) 622-8003 (fax), or anndown@yahoo.com.

While the **Mary W. Harriman Foundation** (no web page) primarily supports nonprofit organizations in New York, with emphasis on New York City, some grants are made to Massachusetts charities. The Foundation's areas of interest include: arts and culture, including museums; children and youth; civic organizations; education, including higher education, libraries, and private education; **the environment, including land and wildlife conservation**; and health. Grant seekers should submit a written request that includes a description of the organization and the purpose for which funds are being requested. Send it to: Barbara O'Connell, Secretary, Mary W. Harriman Foundation, c/o Brown Brothers Harriman Trust Co., 140 Broadway, 11th Floor, New York, NY 10005. Telephone: (212) 493-8182.

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Calendar

(sorted chronologically by date of event, submission deadline, etc. Descriptive text for events provided below is obtained from the events' web pages.)

[Local Environmental Action 2014](#), an annual conference co-sponsored by the [Toxics Action Center](#) and the [Mass. Climate Action Network](#) (MCAN), will be taking place on **Sunday, March 2** at [Northeastern University](#) in Boston. Click [here](#) to register, [here](#) to see the workshop sessions, or [here](#) for more info.

The [Environmental Business Council](#) (EBC)'s [Dam Management Committee](#) is sponsoring a program entitled [New Perspectives in Dam Removal, Sediment Management and Stream Restoration](#), scheduled to take place on **Tuesday, March 4, 2014** from 7:30 AM - 12:00 Noon at the [offices of McLane, Graf, Raulerson & Middleton](#) in Woburn. Topics to be covered include: new regulatory attitudes on sediment management; available funding and grant sources for dam removal; a contractor's perspective on dam removal costs and water control options; and a case study of an emergency dam removal project in Massachusetts. Click [here](#) for a program description and [here](#) to register or for more info.

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- A free workshop entitled [How to do it Right! Wetlands Protection Act Permits and Procedures](#), sponsored by [Mass. DEP's Regional Circuit Rider Program](#), is scheduled for the [following dates and locations](#): Tuesday, **March 4 - Eastham** Town Hall
 - Thursday, **March 6 - West Tisbury** Public Safety Building
 - Tuesday, **March 18 - Barnstable** County Complex
 - Thursday, **March 20 - MassDEP Lakeville**

All sessions begin with Sign-in/Networking/Coffee at 9:00 AM, with the workshop running from 9:30 AM – 3:30 PM. The workshops are open to conservation commissioners and staff **as well as** applicants and their

representatives, including landscapers, property managers, architects, real estate agents, building contractors, attorneys, surveyors and others. As space is limited in some venues, pre-registration is required, via e-mail to Christine.Odiaga@state.ma.us. Click [here](#) to download the workshop flyer.

The [New England Estuarine Research Society](#) (NEERS) is currently calling for presentations to be made at its [Spring 2014 Meeting](#) in Salem, taking place from May 1-3, 2014. Meeting presentations will be on a variety of topics related to estuaries and coastal environments. For more information on abstract submissions, which are due by **March 5**, contact Hilary Neckles at hneckles@usgs.gov.

Roads can convey a variety of pollutants into our waterways and can increase the volume and velocity of stormwater generated. Green infrastructure techniques are one solution that can be used to reduce and treat stormwater runoff. [Innovative Transportation Stormwater Management: Green Infrastructure in Road Projects](#), a free webcast taking place on **Wednesday, March 5, 2014** from 1:00 PM – 3:00 PM, will include brief overviews about green infrastructure from the Federal Highway Administration and the U.S. EPA and showcase two state transportation organizations committed to innovative initiatives to improve water quality and manage the quality and quantity of stormwater runoff from road surfaces. The speakers will highlight collaborative projects, policy recommendations to strategically incorporate green infrastructure into the roadway funding and approval process, and describe a programmatic approach to the design and construction of stormwater BMPs along with a chloride offset program. Click [here](#) to register for the webinar and [here](#) for more info.

The [Rhode Island Land and Water Conservation Summit](#) will be taking place on **March 8, 2014** at the URI Memorial Union on the [Kingston Campus](#). **Many of the 30 workshop topics are relevant to Massachusetts land trusts, watershed associations and others involved in watershed/landscape protection, restoration and stewardship** (click [here](#) for a detailed listing). Click [here](#) to register, or contact Meg Kerr [megkerr@cox.net, (401) 714-2313 cell] for more info.

An [Invasive Plant Workshop](#) will be held at the Mason Library, Great Barrington on **Saturday, March 8, 2014**, beginning at 10:00 AM. Jess Toro and Sari Hoy, owners of [Native Habitat Restoration](#), will give a presentation on how to identify and start addressing the problems of non-native invasive plant species in your yard, garden, and forest. Find out why we should care about them and how they can damage your property and natural areas. Jess and Sari will also describe different options for landowners to control invasive species on their land and potential funding resources. The workshop is free and open to the public. Click [here](#) or contact Jess Toro at (413) 358-7400 for more info.

The [GrantStation](#)-sponsored webinar [How to Secure Funding from Foundations](#), scheduled for **Thursday, March 13**, from 2:00 PM – 3:30 PM, will provide a thorough grounding in what foundations are all about, including how many there are, who runs them, and trends in foundation giving. The focus is on what motivates foundations to give and how you can determine why they might or might not support your organization. Topics include types of foundations and styles of approach, determining your organization's funding needs, finding the best prospect, what makes a winning grant proposal, introducing your agency to a foundation, and proposal submission techniques. Click [here](#) for more info and [here](#) to register.

Many southern New England salt marshes seem to be showing initial signs of marsh response to the effects of rapid sea level rise and increased inundation due to anomalous tides. This issue will be addressed in a presentation entitled [Vulnerability of Salt Marshes to Sea Level Rise](#), scheduled to take place on **Thursday, March 13** at 7:00 PM at the [Jones River Landing in Kingston](#). Presenter Marci Coke Ekberg will discuss preliminary results of an effort to assess and quantify these impacts to salt marshes. This talk is part of the [Climate Change Lecture Series](#), sponsored by the Jones River Watershed Association in partnership with the North and South Rivers Watershed Association and the Mass. Bays Program.

The [Southern New England Chapter of the Soil and Water Conservation Society](#) is hosting a conference entitled [Preparing for the Next Big Storm: Stormwater Management, Flood Insurance and More](#), scheduled to take

place on **Friday, March 14, 2014** at [Eastern Connecticut State University](#) in Willimantic, CT. Click [here](#) to register online, or [here](#) to access a downloadable/printable agenda, registration form and campus map.

A workshop entitled [***Make a Splash with Your Communications: Communicate with Water Words That Work***](#), sponsored by the [Waquoit Bay Reserve Coastal Training Program](#), is scheduled to take place on **Friday, March 14, 2014** from 9:00 AM – 4:00 PM in Hyannis. “Relearn the language that everyday citizens use and you’ll become more confident and successful as you set out to enlighten the uninformed and persuade the undecided to take a stand or take action on behalf of our rivers, ponds, lakes and oceans.” This workshop is intended for anyone who communicates to public audiences about water resources (drinking water, stormwater and wastewater) as well as land conservation, habitat restoration and watershed management. It should also be useful to local officials, municipal staff and board members, environmental organizations, federal and state agency staff, scientists and consultants. Click [here](#) to register or for more info.

Coyote/human interactions, controlling winter moths, insights from ocean sunfish strandings, and mist-netting songbirds on South Monomoy are just a few of the many subjects presented on at this year’s [***Cape Cod Natural History Conference***](#), scheduled for **Saturday, March 15, 2014** at [Cape Cod Community College](#). This full day conference features presenters from environmental organizations across Cape Cod speaking on a diversity of natural history topics. Both oral and poster presentations will highlight local research projects, conservation efforts, and local environmental organizations, and allow participants the opportunity to engage with the presenters. Click [here](#) to register online, or [here](#) to download a conference brochure and printable registration form.

[***Nuts & Bolts of Green Infrastructure Design and Construction for Developers, Designers, Contractors and Municipal Officials: Promoting Clean Water, Greening our Streets and Neighborhoods***](#), a Green Infrastructure Workshop and Vendor Fair, will be held on **March 17, 2014** at Holyoke Community College. The event is co-sponsored by EPA Region 1/New England, the Pioneer Valley Planning Commission and the Massachusetts Water Resources Research Center. While the event is free for non-vendors, space is limited and you are encouraged to RSVP to Françoise Hatte [mfhatte@cns.umass.edu or (413) 545-5531] by **March 10**.

A free webinar entitled [***Improving Water Quality and Quantity with Pervious Pavement***](#), scheduled to take place on **Wednesday, March 19** from 2:00 PM – 3:30 PM, will discuss how to reduce your urban stormwater runoff, and improve your water quality through the effective design and maintenance of **permeable pavement interlocking concrete paver (PICP) systems**. The webinar will outline the key components, specifications, and best management practices in PICP system design, construction, and maintenance, as well as point out the main differences between the primary five types of pervious pavement surfaces. “Within this discussion, we’ll also explore how to modify your system design to accommodate changes based on site soil conditions (e.g., sand, silt, and clay) as well as outline the best practices for preventative and remedial maintenance (including costs) to ensure the successful long-term performance of your PICP system.” Click [here](#) to sign up or for more info.

On **Wednesday, March 19**, the final event in the [2014 Water Watch Lecture series](#) will be a talk about the book [***The Snail Darter and the Dam: How Pork-Barrel Politics Endangered a Little Fish and Killed a River***](#). The presenter will be Boston College Law Professor and book author Zygmunt Plater, who will share the hidden story behind one of the nation’s most significant environmental law battles, a landmark case he and his students won thirty years ago, known officially at *Tennessee Valley Authority v. Hill*, which has been consistently mischaracterized in politics and the media. Plater’s book offers a detailed account of the six-year crusade against a pork-barrel project that made no economic sense and was flawed from the start. In reality, TVA’s project was designed for recreation and real estate development. And at the heart of the little group fighting the project in the courts and Congress were family farmers trying to save their homes and farms, most of which were to be resold in a corporate land development scheme. The free lecture begins at 7:00 PM and will take place at the [South Shore Natural Science Center](#) in Norwell.

The Seventeenth Annual Meeting of the [Connecticut Association of Wetland Scientists](#) (CAWS), [***Research, Case***](#)

[Studies & Anecdotes: The Latest in Wetland Science](#), will take place on **Thursday March 20, 2014** from 8:15 AM to 3:50 PM at the Crowne Plaza Hotel in Southbury, CT. Click [here](#) to register or for more info.

The [Essex County Greenbelt Association](#)'s [Winter Film Series](#) (presented in partnership with the Essex County Ecology Center/[Toad Hall Bookstore](#)) is sponsoring a free screening of the documentary film [Mother Nature's Child: Growing Outdoors in the Media Age](#) at the [Cape Ann Cinema](#) (21 Main St. in Gloucester) on **Thursday, March 20**, from 7:30 – 9:30 PM. This film documents how people are adapting to this in urban communities across the country, as well as explores nature's role in a child's development, from toddlers to teen years. Click [here](#) to RSVP or for more info.

Canadian water warrior [Maude Barlow](#) will be in Boston for a discussion of her new book: [Blue Future: Protecting Water and People and the Planet Forever](#) (see **Publications** section for more info) on **Thursday, March 20** from 7:00 PM – 8:30 PM at the First Church JP, 6 Eliot St ([map](#)). *Blue Future* includes inspiring stories of struggle and resistance from communities across the globe, as well as examples of government policies that work for people and the planet. A call to action to create a water-secure world, this is, in the end, a book of hope.

“**Healthy Land - Healthy Communities**” is the theme for the [2014 Massachusetts Land Conservation Conference](#) (MLCC), which will take place on **Saturday, March 22** from 8:00 AM – 4:00 PM at [Worcester Technical High School](#). This annual, day-long training and networking event provides land trust board members and staff, parks administrators and advocates, colleagues from federal, state and local government agencies, students, and philanthropists an opportunity to participate in a full day of workshops and discussions that focus on fostering healthy communities in MA through land conservation. Click [here](#) to see the lineup of over 30 workshop sessions, covering all aspects of natural landscape protection, restoration and stewardship, and related topics. Click [here](#) to register online, [here](#) to download a printable/mailable registration form, or [here](#) for info on [2013](#) and [earlier](#) MLCCs, including the ability to view past presentations and handouts.

The **New England Association of Environmental Biologists** (NEAEB) will hold its 38th Annual Meeting from **March 26-28, 2014** in Burlington, Vermont. [NEAEB 2014](#) is a three-day conference that provides a forum for presenting current work and research on pressing environmental issues relevant to the region. Click [here](#) for more info.

[Proposals for 90-minute workshops are currently being sought](#) for the [10th Annual Connecting for Change: A Bioneers Network Event](#), presented by the Marion Institute, an annual three-day, solutions based gathering that brings together a diverse audience to create deep and positive change in their communities. The 2014 *Connecting for Change* event will take place from **October 24-26, 2014** in downtown New Bedford. This internationally acclaimed event summons environmental, industry and social justice innovators to bring focus on food and farming, health and healing, green business, indigenous knowledge, environmental and social justice, women and youth empowerment, spirituality and sustainability, all working to catalyze a movement to heal our world. Click [here](#) to submit a proposal; the **deadline** is **March 28**.

The [Berkshire Chapter of the Appalachian Mountain Club](#) will be holding its [Annual Potluck](#) on **Saturday, March 29th**, beginning at 6:00 PM, at the [Genesis Spiritual Life & Conference Center, 53 Mill St.](#) in Westfield. Following the potluck, Russ Cohen of the Mass. Division of Ecological Restoration will present a talk entitled [Trees, Paddlers and Wildlife - Ecology of Trees & Our Waterways](#). What should be done about trees lying in a river? Should they be removed, pruned, relocated, or left undisturbed? What are the safety considerations? What is the appropriate balance between the competing desires of anglers, canoeists, kayakers, and other boaters who seek easy access; the interests of property owners concerned about flood drainage and a ‘tidy’ appearance; and the needs of fish, mammals, amphibians, insects and birds for adequate food, nesting, and cover? What is “large woody debris” in rivers, and how does it improve water quality and control flooding downstream? Russ will answer these questions as well as share some info about native species that are suitable for planting in riparian areas. This event is free and open to the public; click [here](#) or contact Sabine Prather [(413) 949-3914 or sabineprather@gmail.com] to sign up or for more info.

The [**Project Native 4th Annual Film Festival**](#), sponsored by [Project Native](#), a native plants nursery and education center located in Great Barrington, will be taking place over the weekend of **March 29-30, 2014**. The festival will kick off Saturday at 7:00 PM with a special screening at the [Mahaiwe Theatre](#) of *Revolution* by Rob Stewart. “Startling, beautiful, and provocative, *Revolution* has already won awards at international film festivals. *Revolution* is not just about the environment – it’s a film about hope and inspiration.” A panel discussion will follow the film. On Sunday, Project Native will once again host a full day of environmental films at the [Triplex Cinema](#), beginning with a screening of *Flight of the Butterflies* at 10:00 AM. For the remainder of the day, a variety of films will be shown on a wide-range of current environmental topics including salmon farming, GMO’s, Tar Sands, invasive Asian Carp, fracking and industrial hemp. The entire event is **free**, thanks to the generous support of the Dr. Robert C. and Tina Sohn Foundation. Click here or contact Karen [kleblanc@projectnative.org or (413) 274-3433] for more info.

The [**20th Annual Westfield River Symposium**](#) will take place on **Saturday, April 5, 2014** in the Scanlon Banquet Hall at [Westfield State University](#). This year’s theme is “The Health of Our Watershed: Forests, Wildlife, Water”, and the keynote speaker is Jonathan Thompson, Senior Ecologist at the Harvard Forest, who will speak on their recent [*Changes in the Land*](#) study focusing on different futures for the state’s forested landscapes. Other speakers include Tim Bridges of the U.S. EPA, Leanda Fontaine-Gagnon of the Mass. Division of Fisheries and Wildlife (who will present a talk on *Trout and Coldwater Streams in the Westfield River Watershed*), and Elia del Molino of the Berkshire Environmental Action Team. A nice variety of exhibitors is also planned, including the Watershed on Wheels team. Click [here](#) for more info.

[**Earth Night**](#), the annual environmental party hosted by (and benefitting) the [Environmental League of Massachusetts](#) (ELM), will be held on **Saturday, April 5, 2014** from 7:00 PM – 10:00 PM at the Back Bay Events Center, [180 Berkeley Street in Boston](#). The event typically draws over 300 people affiliated with environmental nonprofits, government, corporations, foundations, and more. Earth Night features good music, good food, silent and live auctions, and best of all, a chance to enjoy a good time with ELM friends and allies. Dinner, beer, wine, and desserts will be provided. Click [here](#) to purchase a ticket, or contact Kaelin Holland [(617) 742-2553, kholland@environmentalleague.org] for more info.

Lyme and other tick-borne diseases are increasing each year and expanding northward. People who work in and enjoy gardens and wild areas are at high risk for exposure, as are their families and pets. In the course [**Tick-borne Disease: Awareness, Prevention, and Treatment**](#), co-sponsored by the New England Wild Flower Society and the Ecological Landscape Alliance, a panel of three experts will discuss the latest research on changes in climate, habitat, and predators that affect the distribution of ticks and diseases; tick life cycles and disease hosts; infection-prevention methods such as improved landscape practices and personal protection. The panel will also cover what to do if bitten, including tick removal, disease symptoms, accurate diagnosis, and treatment options. It will explain the scope of the public health emergency: epidemiology; legal issues; and available resources. Attendees will come away empowered with preventative strategies and knowledge of treatment options. The course will take place at [Garden in the Woods in Framingham](#) on **Sunday, April 6** from 1:00 to 3:30 PM. Click [here](#) to register and [here](#) for more info.

A week-long workshop entitled [**Designing for Aquatic Organism Passage at Road-Stream Crossings**](#) is scheduled to be offered from **April 7-11, 2014** in Hadley, MA. The workshop will present the USDA Forest Service’s stream simulation method, an ecosystem-based approach for designing and constructing a channel through the road-stream crossing structure that reestablishes physical and ecological continuity along the stream corridor. Participants will learn the necessary skills to design road-stream crossing structures that provide unimpeded fish and other aquatic organism passage through the structure, restore natural channel characteristics and fluvial processes through the structure, while maximizing the long-term stability of the structure. The target audience for the workshop includes Civil Engineers, Geotechnical Engineers, Hydrologists, Geomorphologists, Ecologists, Biologists, and Geologists. Interested parties should click [here](#) and [here](#) to download more details, contact San Cenderelli [dcenderelli@fs.fed.us, (970) 295-5984] to register for the workshop, or contact Nick Schmal at (414) 297-3431 or nschmal@fs.fed.us for more info.

A free screening of/discussion about the documentary film [**Last Call at the Oasis**](#) will take place at the [Boston](#)

[Museum of Science](#) on **Tuesday, April 8**, from 6:30 PM – 9:00 PM. *Last Call at the Oasis* presents a powerful argument for why water will become the central issue facing our world in this century. This is a “smart, visually arresting documentary that Indiewire calls ‘Necessary viewing for anyone on the planet who drinks water’. Get the latest on the state of our water from Peter Gleick and James Famiglietti, the renowned water visionaries featured in the film.” [Gleick is president and cofounder of the [Pacific Institute](#) and author of *Bottled and Sold: The Story Behind Our Obsession with Bottled Water*.] [Online registration](#) for this event begins on March 25.

National Volunteer Week, April 6-12, 2014, is about inspiring, recognizing and encouraging people to seek out imaginative ways to engage in their communities. Click [here](#) to download the 26-page [Celebrate Service Marketing Resource Guide](#) to see how your organization could effectively use its participation in National Volunteer Week to promote its mission and activities. Write to Jennifer Geckler at jgeckler@pointsoflight.org for more info.

The annual [NEAFWA Conference](#), taking place this year from **April 13-15, 2014** in Portland, ME, consists of workshop sessions, [keynote speakers](#), [poster displays](#), and social and networking events, including workshop tracks devoted to [brook trout](#) and [turtle](#) conservation. Click [here](#) to register and [here](#) for more details on the conference.

During [Massachusetts Archaeology Month](#), held annually each **October**, museums, libraries, archaeologists, and many more people and institutions join with the [Mass. Historical Commission](#) (MHC) and the State Archaeologist in hosting exhibits, lectures, walks, and events for adults, children, and teachers. The MHC is currently (until **April 15, 2014**) seeking events to be included in the **2014 Mass. Archeology Month Calendar**. Click [here](#) to submit an event, [here](#) to download a mailable event submission form, [here](#) for more info on Archaeology Month (including [info on last year's events](#)), and [here](#) for published info on researched archaeological sites in Massachusetts, several of which relate to rivers and/or wetlands. You can also contact Jennifer Poulsen [Jennifer.poulsen@sec.state.ma.us, (617) 727-8470] at the MHC for more info.

A free event entitled [Water, Water, Everywhere, and Not a Drop to Drink!](#) will take place at the [Boston Museum of Science](#) on **Wednesday, April 16**, from 7:00 PM – 9:00 PM. “Learn how water-related extremes present a host of challenges to our health and our engineered infrastructures. Discuss several geographic and cultural case studies connected to questions such as drought, sea level rise, extreme precipitation events, and water quality, and participate in collaborative problem-solving around our uncertain water future.” This event is presented in collaboration with Northeastern University’s School of Public Policy and Urban Affairs’ “[Water: Challenges of Extremes](#)” [Open Classroom](#) series. [Online registration](#) for this event begins on April 2.

[Floodplain Forest Canoe Trip and Great Blue Heron Rookery Viewing](#), sponsored by [Mass. Audubon’s Arcadia Wildlife Sanctuary](#), is scheduled to take place on **Saturday April 19, 2014** from 9:00 AM – 1:00 PM. “Weave in and out of trees in the floodplain forests at Arcadia’s Mill River and Marsh while identifying spring plants and shrubs on the shore, and looking for migrating birds returning such as the resident great blue heron. After canoeing, we will take a short walk to view the great blue heron rookery of nests. Program is geared for the experienced paddler”. Click [here](#) or call (413) 584-3009 to sign up or for more info.

The [Society for Ecological Restoration-New England Chapter](#) and the [Conway School of Landscape Design](#) are co-hosting a conference entitled [Designing For Success: Ecological Restoration In Times Of Change](#), which will take place on **April 25 and 26, 2014** at Hampshire College in Amherst. This conference will be a gathering of scientists, restoration professionals, government agency personnel, students, and individuals interested in ecological restoration. The conference will include oral presentations from researchers and practitioners, a poster session, and field trips to restoration sites. Featured speakers include Keith Bowers, President, Biohabitats; Wendi Goldsmith, CEO, Bioengineering Group; and Christopher Neill, Director, Ecosystems Center, Marine Biological Laboratory (MBL), Woods Hole, MA. Click [here](#) to register and [here](#) for more info.

The [Massachusetts office of The Nature Conservancy](#) will once again host [The Future of Nature](#), a series of talks this spring. Leading thinkers from Boston and beyond will discuss solutions to some of the most pressing

environmental challenges we face. The topics are: [Population](#) on **April 28, 2014**; [Finance](#) on **May 12, 2014**; and [Climate](#) on **June 9, 2014**. All talks will take place at the [Calderwood Pavilion at the Boston Center for the Arts](#), with a reception at 5:30 PM and the talks running from 6:30 – 8:00 PM. Click [here](#) to sign up for any (or all!) of the talks or for more info.

The [New England Interstate Water Pollution Control Commission](#) (NEIWPCC) is hosting its [25th Annual Nonpoint Source Pollution \(NPS\) Conference](#) on **April 29-30, 2014** in Newport, RI. [Registration](#) is now open for attendees and exhibitors, and a [draft event program](#) is available.

Can oysters save the world? Find out at a free talk entitled [Oyster and Salt Marsh Impacts on Cape Cod](#), scheduled to take place on **Thursday, May 1** from 7:00 - 8:00 PM at the [New England Aquarium's IMAX Theatre](#). The presenter, Curtis S. Felix, is vice chair of the Comprehensive Wastewater Planning Committee in Wellfleet, as well as Wellfleet's representative to the Cape Cod Water Protection Collaborative and the County 208 Technical Advisory Committee. Felix will present an update on a large-scale oyster habitat restoration effort in Wellfleet and similar initiatives elsewhere in the Commonwealth to bring back the bivalve from its nearly 99 percent reduction in population. Learn more about how oysters can clean the water, help restore lost fish populations in Massachusetts Bay, prevent coastal erosion, buffer against ocean acidification and taste great! Click [here](#) to register.

Since its commissioning at the Fisherville Mill Canal in Grafton, Mass. in 2012, the combined technologies of an [Eco-Machine™](#) with a mycelial loop and Canal [Restorer](#) have treated over 300,000 gallons of petroleum-contaminated waters and sediment. The system is remediating 95% of the hydrocarbons left behind by 200 years of industrial abuse. The Living Systems Laboratory facility is a unique and living example of the power of the ecological design. Today we are in possession of an incredible resource and opportunity to use this site as a teaching landscape. The project is building a bridge between a toxic legacy and a healthy, abundant world. A workshop entitled [Ecological Design and Aquatic Restorer Construction at the Living Systems Laboratory, Grafton, MA](#) taking place on **May 2-3 (Friday-Saturday), 2014**, includes classroom learning led by [Dr. John Todd](#), internationally recognized pioneer in ecological wastewater treatment, on the principles of ecological design and the history of his groundbreaking work. The workshop also includes hands-on instruction in the construction of the Canal Restorer. Learn how to build this ecological technology that digests sediment and metabolizes excess nutrients and contaminants. Restorers bring the dynamic ecological cycles back into balance within ponds, lakes and canals challenged by heavy nutrient loading, stormwater runoff and leaching pollutants. Aquatic Restorers are excellent solutions for both natural and man-made water bodies, including public and private ponds, golf courses, parks and urban canals. Click [here](#) or write to lauren@toddecological.com to RSVP or for more info on the workshop and the Fisherville Project, or click [here](#) or [here](#) to read articles about this project.

A free webinar entitled [More Bang for the Buck: Integrating Green Infrastructure into Existing Public Works Projects](#), is scheduled to take place on **Tuesday, May 6** from 1:00 PM – 2:30 PM. Speakers include Charlotte Katzemoyer, Director of Public Works, City of Lancaster, PA, and Matthew Millea, Deputy County Executive for Physical Services, Onondaga County, NY. Click [here](#) or contact Eva Birk (birk.eva@epa.gov) or Emily Ashton (ashton.emily@epa.gov) for more info.

The **cooperative management of invasive species** requires creative new approaches – whether working with your neighbors or navigating town hall. A talk entitled [Managing Invasives: From Garlic Mustard Pulls to Tupperweed Parties](#) is scheduled to take place on **Wednesday, May 7, 2014**, beginning at 7:00 PM. This free event takes place at the [Cambridge Public Library](#) and is part of [Grow Native Massachusetts'](#) “[Evenings with Experts](#)” lecture series. Presenter Julie Richburg, Ph.D., Chair of the [Westfield River Watershed Invasive Species Partnership](#) (WISP), will explore innovative ways to start grassroots control efforts, discussing effective outreach methods and the importance of public education. WISP illustrates effective organizational collaboration and coordinated control methods. Other towns' efforts will be discussed as well. Click [here](#) for more info.

The [***Social Media for Nonprofits Conference***](#) is scheduled to take place on **Monday, May 19, 2014** at [Microsoft's New England R&D Center](#) (NERD) in Cambridge; click [here](#) for more info on the Conference and [here](#) for related info.

A [***Local Solutions: Northeast Climate Change Preparedness Conference***](#) will be held from **May 19-21, 2014** in [Manchester, NH](#). Co-hosted by Antioch University/New England and EPA Regions 1 and 2, *Local Solutions* is intended to assist local planners, decision-makers and educators in understanding how to create healthy resilient communities that are better prepared to handle severe weather and climate impacts. Days 1 and 2 of the conference will focus on [Building Resilient Communities](#) and inform community planners, decision makers and those responsible for implementing change at the local level how best to identify current and future vulnerabilities, followed by adaptive responses to build resilient communities. Day 3, the [Educators Summit](#), will inform middle and high school teachers how to design community-based, problem-solving curriculum that will teach students how best to support municipal officials preparing for impacts from a changing climate. Click [here](#) to register or for more info, or contact Christa Daniels at cdaniels1@antioch.edu.

Nearly every major city was built near the convergence of many rivers. As cities grew with the Industrial Revolution, these rivers became conduits for disease and pollution. The 19th-century solution was to bury them underground and merge them with the sewer systems. These rivers still run through today's metropolises, but they do so out of sight. As part of its [Land, Air, & Water Eco Film Series](#), the [Lowell Parks and Conservation Trust](#) will be hosting a screening of the documentary film [***Lost Rivers***](#) on **Tuesday, May 27th, 2014**, beginning at 6:30 PM, at the [Lowell National Historical Park Visitor Center](#). *Lost Rivers* examines hidden waterways in cities around the world and introduces us to people dedicated to exploring and exposing them. Click [here](#) to view the trailer and [here](#) for more info on this and other films in the series.

[***River Rally 2014***](#), a joint production of River Network and the Waterkeeper Alliance, will take place in Pittsburgh, PA from **May 30 – June 2**. River Rally is the country's largest gathering of clean water advocates. "With more than 70 educational workshops, dynamic speakers and non-stop networking opportunities, this is THE professional development conference for the river and watershed conservation movement." Applications for [River Rally scholarships](#) (for River Network Partners) for reduced registration, etc. costs, are due **March 13**; click [here](#) to apply or for more info.

The [***2014 International Conference on Engineering & Ecohydrology for Fish Passage***](#) (aka **Fish Passage 2014**) will be held at University of Wisconsin/Madison on **June 9-11, 2014**. Fish Passage 2014 builds upon the [Fish Passage 2013 conference](#), held at Oregon State University, and the [2011](#) and [2012](#) conferences held at UMass/Amherst. Details about the previous Fish Passage conference talks, including downloadable PDF's for many of the past presentations, can be found [here](#); click [here](#) for info on the people helping to organize the conference.

[New England Water Works Association](#) (NEWWA) is the host organization for the [American Water Works Association](#) (AWWA)'s [***ACE14 \(the 2014 Annual Conference and Exposition\)***](#), which will be held from **June 8-12, 2014** in **Boston**. Click [here](#) to see the schedule, here for [workshop](#) descriptions, and [here](#) for registration info.

Bioretention (in the form of rain gardens, bioswales, street bioretention, stormwater planters, etc.) is becoming a popular and widespread practice around the country and the world. Putting the "bio" into bioretention designs is of course important, but sometimes not the major focus of the design process. However, in the long-run, it is vegetation that everyone sees, and that constitutes perhaps the major maintenance task. [***How To Pick The Right Vegetation for Bioretention & Its Cousins***](#), a webcast hosted by the [Center for Watershed Protection](#) (CWP) and scheduled to take place on **June 11, 2014** from 1:00 – 3:00 PM, will provide guidance on how to design with long-term maintenance in mind, and how choices of vegetation can influence aesthetics, performance, community understanding and acceptance, the provision of multiple benefits, and (importantly), maintenance budgets. The webcast will also address the hot issue of whether to include trees in bioretention planting plans. Click [here](#) to register or for more info. [In the meantime, you might want to click [here](#) to read the CWP's [top ten list of things](#)

[each person can do to practice watershed stewardship.](#)]

Last but not least: **2014** has been designated as the [Year of the Salamander](#) by the international organization [Partners in Amphibian and Reptile Conservation](#) (PARC), along with the [Amphibian Survival Alliance](#) (ASA) and other groups. Click [here](#) and [here](#) for Year of the Salamander-themed publications (such as the [State of the Salamander report](#) and [monthly, salamander-themed newsletters](#)) events and products (including a [photo calendar](#)). [In Massachusetts, salamanders and other non-game species are monitored and protected by the Mass. Division of Fisheries and Wildlife's [Natural Heritage and Endangered Species Program](#), which also puts out fact sheets on each the salamander species present in the Commonwealth (see, e.g., the [fact sheet for the Marbled Salamander, *Ambystoma opacum*](#).)]

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Online Resources

(Descriptive text provided is obtained from the web pages themselves.)

The U.S. EPA [recently announced](#) that it has come up with a Phase II version of its [National Stormwater Calculator](#) and Climate Assessment Tool package. The updated calculator includes **future climate vulnerability scenarios**. The Calculator is a desktop application that estimates the annual amount of stormwater runoff from a specific location. The Calculator now includes changes in seasonal precipitation levels, the effects of more frequent high-intensity storms, and changes in evaporation rates based on validated Intergovernmental Panel on Climate Change climate change scenarios. Users can enter any U.S. location and select different scenarios to learn **how specific green infrastructure changes, including inexpensive changes such as rain barrels and rain gardens, can reduce stormwater runoff**. This information shows users how adding green infrastructure, which mimics natural processes, can be one of the most cost-effective ways to reduce stormwater runoff. Click [here](#) for more info.

The U.S. EPA's [Climate Change Adaptation Plan](#), first released in draft form in February of 2013, examines how EPA programs may be vulnerable to a changing climate and how the Agency can accordingly adapt in order to continue meeting its mission of protecting human health and the environment. EPA's Superfund Program has undertaken associated [efforts to identify potential impacts of climate change on site remediation projects](#) and to identify adaptation strategies. A key component of the Superfund climate change adaptation action plan involves developing tools that can help project managers and other cleanup stakeholders to identify, prioritize and implement site-specific measures for **increasing remedy resilience to climate change impacts**. The EPA's [Climate Change Adaptation Technical Fact Sheet: Groundwater Remediation Systems](#) (EPA 542-F-13-004) is the first in a series intended to serve as an adaptation planning tool by providing an overview of potential climate change vulnerabilities and presenting possible adaptation measures that may be considered to increase a remedy's resilience to climate change impacts.

Have an idea for a trail, river, or park in your community? The National Park Service's [Rivers and Trails Conservation Assistance Program](#) (RTCA) supports community-led natural resource conservation and outdoor recreation projects across the nation. The RTCA's national network of conservation and recreation planning professionals partners with community groups, nonprofits, tribes, and state and local governments to design trails and parks, conserve and improve access to rivers, protect special places, and create recreation opportunities (click [here](#) to see an example from Massachusetts). The RTCA recently put together fact sheets on the RTCA-supported projects currently taking place in each state (click [here](#) for the RTCA's [Massachusetts fact sheet](#)). The RTCA invites anyone potentially interested in their help to contact them (click [here](#) for details). In the meantime, you might want to click [here](#) to see a short (but inspiring) [promotional video on the RTCA](#) and the kinds of projects it assists on.

The [Long Island Sound National Estuary Program](#) is **reducing nutrient pollution** through comprehensive

and innovative strategies. Two projects have been piloting techniques for farming shellfish (ribbed mussels) and [farming seaweed](#) (brown sugar kelp and the red alga, *Gracilaria sp.*). These living organisms naturally ingest organic matter containing nutrients or take up inorganic nutrients. This complements the Program's other efforts to control the entry of nutrients into Long Island Sound, such as through sewage treatment plant upgrades. The end result is cleaner water for fishing, swimming, and other recreational uses. And the shellfish and seaweed that is harvested has an **economic benefit** as well. To learn more about **seaweed harvesting**, [check out this video and accompanying article](#) from the University of Connecticut (*From the Lab to the Dinner Table: Seaweed*); and [New England Seaweed Culture Handbook: Nursery Culture](#), a new 92-page handbook for growing four species of economically and ecologically valuable native seaweeds. The handbook presents protocols for implementation of the technology to culture, maintain, and produce seaweeds beginning in a laboratory, with information on how to scale up for commercial production.

Last December, the [Mass. Office of Coastal Zone Management](#) launched its [StormSmart Properties website](#) with fact sheets for coastal property owners on shoreline stabilization options that effectively reduce erosion and storm damage while minimizing impacts to shoreline systems. The six techniques covered in this first round of fact sheets are: [artificial dunes and dune nourishment](#), [controlling overland runoff to reduce coastal erosion](#), [planting vegetation to reduce erosion and storm damage](#), [bioengineering - coir rolls on coastal banks](#), [bioengineering - natural fiber blankets on coastal banks](#), and [sand fencing](#). In the coming year, CZM will add additional fact sheets on topics such as repair/reconstruction of revetments, seawalls, and groins; beach nourishment; elevating and relocating buildings; sand-filled envelopes; salt marsh creation and restoration on coastal beaches; and design standards for new revetments, seawalls, and groins.

The **Mass. Department of Fish and Game's Division of Marine Fisheries** (DMF) [semi-annual DMF News newsletters](#) often include interesting and informative articles about inshore habitats and migratory pathways, and the fish species that utilize rivers and/or wetlands for part of their life cycle. See, e.g., the [articles about eels and eelgrass](#) (beginning on pp. 9 and 13 respectively) in the [3rd/4th Quarter 2013 edition of the DMF News](#), and the [articles about river herring, diadromous fish runs and rainbow smelt](#) (on pp. 3, 7 and 8 respectively) of the [1st/2nd Quarter 2013 edition of the DMF News](#). [Click [here](#) and [here](#) for additional online resources relating to **rainbow smelt** protection and restoration activities in Massachusetts and elsewhere in the fish's range.]

Last but not least: the mission of the [Massachusetts Environmental Police](#) (MEP) is to protect the environment and natural resources of the Commonwealth through enforcement, education, and public outreach. The office is further charged with protecting the health, safety, and individual rights of the public and preserving our environment for future generations. **The MEP now has an [online reporting form for reporting violations](#)** (e.g., fishing out of season or for prohibited types of fish, dumping on state park or wildlife lands, etc.) that have **already occurred**. [For violations **currently in progress**, please **call MEP Dispatch at 1-800-632-8075**.]

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Non-government On-line Resources

(in rough alphabetical order – the following are offered for information purposes only and are not an endorsement of the items listed below. Descriptive text provided is obtained from the web pages themselves.)

American Rivers' Dam Removal Map

<http://www.AmericanRivers.org/DamRemovalMap>

American Rivers' recently-launched national map of completed dam removals is the result of 15 years of the organization's annual data collection on dam removals around the country. The interactive map is zoomable, and clicking on one of the circular green icons causes a descriptive paragraph about that particular dam removal project to pop up. As American Rivers would like to keep the map accurate and up-to-date, please pass along any omissions or other edits to the map to outreach@americanrivers.org. [Learn more about how dams hurt rivers and American Rivers' current removal projects at www.AmericanRivers.org/Dams.]

American Water Resources Association (AWRA)

<http://www.awra.org>

Founded in 1964, the American Water Resources Association is a non-profit professional association dedicated to the advancement of men and women in water resources management, research, and education. AWRA's membership includes a wide variety of water resources experts including engineers, educators, foresters, biologists, ecologists, geographers, managers, regulators, hydrologists and attorneys. Resources available at the AWRA website include: the new [AWRA Live Learning Center](#), a digital portal to presentations and other proceedings at past AWRA conferences; a free download to the [January 2014 issue of AWRA's Water Resources IMPACT Magazine](#), whose theme is "The Future of Water Resources in the United States" and includes 18 articles on topics ranging from water law and pricing to floods, drought management and agriculture; and **Pinterest boards** on various water topics, including **water-related videos, apps, infographs** and other **water tools**.

Bumble Bee Watch

<http://www.bumblebeewatch.org>

Bumble Bee Watch is a collaborative effort to track and conserve North America's bumble bees. This citizen science project allows for individuals to: upload photos of bumble bees, try to ID them, and have your identifications verified by experts; help researchers determine the status and conservation needs of bumble bees; help locate rare or endangered populations of bumble bees; learn about bumble bees, their ecology, and ongoing conservation efforts; and connect with other citizen scientists. Participating in Bumble Bee Watch is simple: create an account via the "sign in" tab at the top of the page. Once the weather warms, go out and check your garden, in parks, or any other natural areas you frequent for bumble bees. Be sure to snap a photo ([learn more about how to photograph bees here](#)) and then sign in and submit your data via the Bumble Bee Sightings form. [See also www.xerces.org/bumblebees for info about how to create bumble bee habitat.]

Clean Water Future

<http://www.cleanwaterfuture.org>

A specialized application of the "crowdfunding" tool to river and riverine land protection, restoration and stewardship, Clean Water Future was launched as an Internet-based marketplace where individuals, communities, and businesses can invest in projects that protect or enhance natural services provided by private forest and farmland in the **Connecticut River watershed**. This innovative marketplace connects landowners with people who appreciate and benefit from the services the land offers, providing new opportunities for stewardship and

conservation. Originally funded through a [NRCS Conservation Innovations Grant](#), Clean Water Future is now being administered by the [Connecticut River Watershed Council](#). Click [here](#) to read descriptions of projects currently seeking funding, and click on the other links at the top of the main page for more info on this initiative.

COGDesign

<http://www.cogdesign.org>

Founded in 1997 and based in Waltham, MA, **COGdesign** (short for Community Outreach Group for Landscape Design) is a **non-profit service organization offering quality landscape design for community-based groups; meaningful professional experience for student and practicing landscape designers; and volunteer opportunities for those interested in strengthening communities by creating and improving neighborhood green spaces.** COG designers are trained landscape design professionals and students who work pro bono on these projects. [COGdesign clients](#) include affordable housing, public and private schools, neighborhood parks, Friends groups, churches, municipal agencies, historic sites, and community gardens, primarily in the Greater Boston area (see [map](#)), but projects elsewhere in Massachusetts and New England will be considered. Groups potentially interested in contacting COGdesign for help on a project should click [here](#), or click [here](#) for related info.

ConservationWalks

<https://connect.natureserve.org/support-us/conservationwalks>

A service of [NatureServe](#), ConservationWalks empowers community groups, students, corporations, and anyone interested in the natural world to **raise funds and awareness for biodiversity conservation through nature hikes.** NatureServe will provide a step-by-step, in-depth program manual, work with you to organize the nature hike, provide maps and lists of rare species and ecosystems, and connect participants to citizen science projects. The program raises funds for NatureServe to continue its mission of connecting science with conservation, and benefits your organization and/or event participants with publicity, new members, recognition, an opportunity to fulfill community service obligations and leadership experience. Click [here](#) for more info and [here](#) to download the 19-page [ConservationWalks manual](#), which contains detailed guidance on how to plan, promote and carry out a ConservationWalks event.

Cornell Lab of Ornithology

<http://www.birds.cornell.edu>

Founded almost a century ago, the Cornell Lab of Ornithology “is a world leader in the study, appreciation, and conservation of birds. Our hallmarks are scientific excellence and technological innovation to **advance the understanding of nature** and to **engage people of all ages in learning about birds and protecting the planet.**” While part of Cornell University, the Lab is its own nonprofit organization, supported by 45,000 [friends and members](#), and hosts a network of [200,000 citizen-science participants](#) from all walks of life, and 5 million bird enthusiasts of all ages via the [All About Birds](#) website. Other resources at this visually (and aurally) appealing and content-heavy website include: [online courses, tutorials and webinars](#) on bird identification, behavior, migration, ecology, conservation, etc.; an [online bird guide](#), which includes hundreds of bird vocalizations; a [Celebrate Urban Birds](#) program; the comprehensive [Birds of North America Online](#) guide, a [bird blog](#), info about the [free “Merlin” bird ID app](#), available for Apple (and, soon, Android) devices; and an online version of current and past issues of [Living Bird Magazine](#).

Directr

<http://www.directr.co>

A [Boston-based company](#), Directr is a point-and-shoot moviemaking app (currently available for iPhone users) that helps you create great movies without editing. All you need is your phone. The Directr app enables you to make beautiful movies in minutes, and then share them far and wide, or keep them for your inner circle. Nonprofits can use Directr to promote themselves (such as [adding video to a press release](#)) or their activities (see, e.g., the [Directr-enabled video WalkBoston produced to tell the story of the organization's work in Revere](#)). The [basic-level Directr app](#) is free. [See also [Magisto](#), a similar moviemaking app, available for Android as well as iPhone devices, and [Wistia](#), a tool for hosting movies/videos on your organization's website.]

Findery

<http://findery.com>

Currently in “public beta” mode, the Findery online tool enables its users to tease out local knowledge, hidden secrets, stories and information about places they visit, all over the world. Users can annotate places in the real world by posting online notes, photos, etc. on Findery that are tagged to a specific geographic location, and others are invited to comment on the postings. Findery postings about places/experiences in Massachusetts include [cooling off in the Mill River in Northampton](#), [a contemplative walk out to Great Island in Wellfleet](#), [exploring the Southwest Corridor Park in Boston](#), [encountering driftwood sculptures on Plum Island](#), and an explanation for the [origin of the “Southwick Jog”](#). Click on [Findery's FAQ page](#) or this [New York Times article](#) for more info.

Fundly

<https://fundly.com/>

Fundly is a [crowdfunding](#) site for **online fundraising** of all sizes. Fundly makes it easy for non-profits, charities, politics, clubs, schools, teams, churches, and many other causes to quickly raise money online from friends, family, colleagues, donors, and other supporters via email, Facebook, Twitter, LinkedIn, Google, and social media networks (click [here](#) for an example). It is also an app for social networks like [Facebook](#) and [LinkedIn](#). It uses [WePay](#) to process donations. Donors are charged when they make a donation. Click [here](#) to read an article about Fundly from *Forbes* Magazine.

Glasspockets

<http://www.glasspockets.org>

Launched in 2010 by the [Foundation Center](#), the **Glasspockets initiative champions philanthropic transparency in an online world**. Glasspockets provides the data, resources, examples, and action steps [foundations](#) need to understand the value of transparency, be more open in their own communications, and help shed more light on how private organizations are serving the public good. Resources at this website include Glasspockets' [Transparency Talk Blog](#), a platform for candid and constructive conversation about foundation transparency and accountability. Click [here](#) to learn more about the mission of and resources available at the Glasspockets website.

Health Benefits of Nature

<http://www.asla.org/healthbenefitsofnature.aspx>

A growing body of research proves what we all know to be true: nature is good for us. [Health Benefits of Nature](#), a new online guide launched by the [American Society of Landscape Architects](#) (ASLA), showcases the long- and

short-term mental and physical health benefits of spending time outside. “We created this guide to expand public awareness about the benefits of green spaces, as well as to urge people to get out and take advantage of the designed and natural landscapes available to them,” said Nancy Somerville of the ASLA. This online guide includes hundreds of free research studies by leading scientists, news articles, and case studies of parks and other designed green spaces, organized into 23 health issues that affect adults and children, including asthma, depression, chronic stress, obesity, and autism spectrum disorders. Each issue is organized by a description of the health problem, of how nature helps, and of the role of landscape architects in solving the problem.

Inside Philanthropy

<http://www.insidephilanthropy.com>

“Raising money is hard work – and the information gap between funders and nonprofits can make it even harder. Too often, nonprofits don’t know which funders might help, exactly what those funders are looking for, or who to contact. At the same time, funders aren’t always connecting with the right potential grantees.” The new Inside Philanthropy website was created to fill this gap, by “pulling back the curtain on funders large and small”. Besides using the website to search for potential funders for your organization and/or its projects (among the searchable subject/location categories are “**Environment**” and “**Boston**”), **the website invites charities to submit anonymous reviews about funders** in a similar manner to how online ratings are compiled for charities. [Click [here](#) to read a useful article posted on the [Chronicle of Philanthropy’s website](#) about InsidePhilanthropy.com.]

Mass. Forestry Alliance

<http://massforestalliance.org>

Today Massachusetts is both the third most densely populated and the eighth most forested state in the country. Our forestlands provide the Commonwealth’s residents with an array of services: water quality protection; soil erosion control; habitat for many wildlife species; uptake and storage of atmospheric carbon. The mission of the Mass. Forestry Alliance is to promote the adoption and understanding of policies that support a strong, sustainable forest economy, responsible forest management practices, and the continuation of working forests on public and private lands. Resources at this web page include the [presentations made at](#) and other info about [***Town Forests: Past and Present – Celebrating 100 Years of Massachusetts Town Forests***](#), a conference that took place last September in Fitchburg.

Outdoors, by Cracky!

<http://www.outdoorsbycracky.com>

Established and maintained by (at one time) farmer, mountaineering instructor, professor and research ecologist [Justin “Cracky” Chase](#), Outdoors, By Cracky! is an online journal about getting outdoors in New England. The extensive content on this website is sortable by topic or location (many of which are north of Boston, where “Cracky” also writes a biweekly column entitled “Outdoorsing the North Shore” for the Newburyport Daily News – click [here](#) for a recent article). Related content appears on Outdoors, By Cracky!’s [Facebook page](#).

Pickatrail.com

<http://www.pickatrail.com>

Set up and maintained single-handedly by [Robert Bennett](#), the Pickatrail website enables you to [search for and download free trail and USGS 7.5’ topographic quadrangle maps for any region in the U.S.](#) (excluding Alaska and Hawaii). Zeroing in on a particular area will also reveal additional info on trails, parks, maps and guidebooks relevant to that area. The website also offers detailed maps and elevation profiles for the [Appalachian Trail](#),

broken up into over 200 segments of about 10 miles each (see, e.g., the [Bash Bish Falls to Great Barrington, MA segment](#)).

Sierra Club Outdoors (SCO)

<http://content.sierraclub.org/outings/sierra-club-outdoors>

A service of the [Sierra Club](#), the [Sierra Club Outdoors](#) website is intended to reach across economic lines, cultures, and communities to engage all Americans, especially [military](#) and [urban youth](#), to explore, enjoy, and protect the natural world. With its 5,000-plus volunteers, SCO provides opportunities for people from all walks of life to get outdoors and create a lifelong connection with nature. The website has a search feature that enables you to [find trips by zip code](#). [Additional Sierra Club-sponsored events are listed on the [Massachusetts Chapter events page](#) and the [Boston Inner City Outings \(ICO\) page](#).]

Slideshare

<http://www.slideshare.net>

SlideShare bills itself as “the world’s largest community for sharing presentations” (click [here](#) and [here](#) for examples of how SlideShare was used by Ducks Unlimited and the Center for Watershed Protection). “With 60 million monthly visitors and 130 million pageviews, it is amongst the most visited 200 websites in the world. Besides presentations, SlideShare also supports documents, PDFs, videos and webinars.” Click [here](#) to see why you/your organization might want to utilize this tool, and [here](#) to read the blog, which offers tips on how to get the most out of this product, as well as info on product updates.

Spin For Good

<http://spinforgood.com>

Spin For Good is a new way for **charities to raise money through social games**. Supporters can turn a \$5 donation into a \$100 or larger donation by [playing and competing in online games](#). When players win big, their selected charity wins along with them. Charities can tap the billion dollar social gaming market for the first time, at a fraction of the cost of direct mail. Spin For Good is actively seeking charities wishing to become eligible to receive donations; click [here](#) to read the FAQ page and [here](#) for more info on the charities already enrolled in Spin For Good, which includes [DoSomething.org](#).]

Splash

<http://www.splashthat.com>

Splash offers a simple way for **event planners to manage and share events with guests**. Splash users can track RSVPs and post event photos on a customizable event website. The free online tool helps with every step, from pre-event promotion and production, to reliving memories with photos. Guests can RSVP on Splash by entering their names and emails, and they can find everything they need to know about the event at the same place. Directions to the event are provided via Google Maps. Splash features Twitter chatter about the event, and event planners can moderate what tweets are posted. The idea is that guests will also share the event with friends on social media to create buzz about the party. After the event, the Splash page manager can post pictures to the Splash page for guests to look at. Click [here](#) to read the FAQ page

TUGG

<http://tugg.org>

[Founded](#) in 2009, TUGG (aka Technology Underwriting Greater Good) is a Boston-based initiative dedicated to

catalyzing and spreading social entrepreneurship in New England. By harnessing the power of the region's technology ecosystem to source, screen and fund social innovation, TUGG empowers both the individual and the community to identify important issues and collaborate to solve them. TUGG helps to generate and steer technical and financial support to **early-stage nonprofits in New England providing education, entrepreneurship, or life experiences to youth**. "We focus our funding towards organizations under \$300k in annual operating budget that are less than five years old or that have had a major change recently (e.g. hired a new executive director). As a community of entrepreneurs, we find this stage in the evolution of a nonprofit to be incredibly exciting and believe it is where we can add the most value through our time and dollars [click [here](#) to see which groups TUGG has already supported]. We are happy to review recommendations from TUGG community members or self solicitations from outstanding non-profits" [click [here](#) to access the short online form to start the process].

Water Blues, Green Solutions

<http://www.waterblues.org>

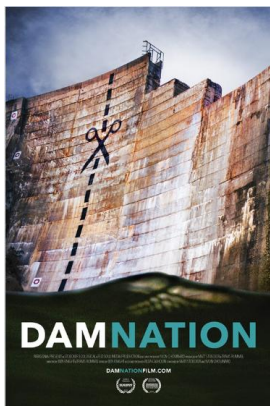
Produced by [Penn State Public Media](#), *Water Blues, Green Solutions* is an interactive documentary project designed to **promote awareness of the role that green infrastructure can play in creating a sustainable water future**. This website presents stories from across the country of communities that are adopting new ways of thinking about how to protect, restore, and preserve our rivers and sources of drinking water. Resources currently available at this website include: a repository of short videos on various themes (see, e.g., [river restoration](#)), broadly available for use by educators, advocates, and the interested public, describing how various communities have implemented green solutions in response to the "water blues" challenges of flooding, pollution, and scarcity; a [discussion and event guide](#) that can be used to promote and enhance any local screenings of any of the Water Blues, Green Solutions videos; and a [resources page](#) with links to related green infrastructure videos. Click [here](#) to read an overview of the project, or contact Project Manager Lindsey Faussette [(814) 863-5489, lindseyf@psu.edu] for more info.

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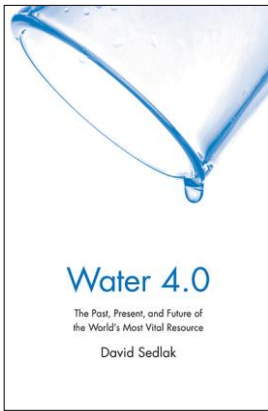
Publications, Videos, etc.

(the following are offered for information purposes only and are not an endorsement of the items listed below. Descriptive text provided is obtained from the web pages themselves.)



The newly-completed documentary film [DamNation](#) "explores the sea change in our national attitude from pride in big dams as engineering wonders to the growing awareness that our own future is bound to the life and health of our rivers. Dam removal has moved beyond the fictional Monkey Wrench Gang to go mainstream. Where obsolete dams come down, rivers bound back to life, giving salmon and other wild fish the right of return to primeval spawning grounds, after decades without access ... Diverse interests across the country are coming together to remove obsolete dams and find more cost-effective options to meet power, shipping, irrigation and other needs, while helping to restore rivers, preserve tribal customs, recover fish stocks, revitalize waterfronts, improve recreational opportunities and render watersheds more resilient to climate change. Dam owners, impacted communities, and politicians are now reevaluating the usefulness of certain dams and often advocating for decommissioning and removal. Some call it a movement, others call it a

generational shift in values. *DamNation* documents both – and the undeniable momentum behind river restoration that has begun to take hold in our country." Click [here](#) to view the trailer, [here](#) to read about the making of the film, [here](#) to read an [FAQ page about dam impacts and dam removal](#), and [here](#) to read a press release about the film's premiere at the South by Southwest Festival (SXSW) on **March 10**, and which includes an **invitation from the filmmakers to help them arrange screenings of *DamNation* in your area**.



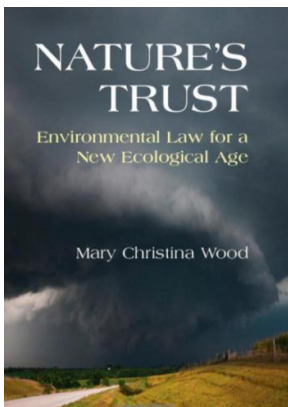
Turn on the faucet, and water pours out. Pull out the drain plug, and the dirty water disappears. Most of us give little thought to the hidden systems that bring us water and take it away when we're done with it. But these underappreciated marvels of engineering face an array of challenges that cannot be solved without a fundamental change to our relationship with water, [David Sedlak](#) explains in his new book [*Water 4.0: The Past, Present, and Future of the World's Most Vital Resource*](#). To make informed decisions about the future, we need to understand the three revolutions in urban water systems that have occurred over the past 2,500 years, and the technologies that will remake the system. The book begins by describing "Water 1.0", the early Roman aqueducts, fountains, and sewers that made dense urban living feasible. He then details the development of drinking water and sewage treatment systems, the second and third revolutions in urban water. He offers an insider's look at current systems that rely on reservoirs, underground pipe networks,

treatment plants, and storm sewers to provide water that is safe to drink, before addressing how these water systems will have to be reinvented to ensure a sustainable future. Click [here](#) to order the book, [here](#) to view a related YouTube video, or [here](#) to read/listen to an interview with Sedlak about *Water 4.0* that recently aired on the *Living on Earth* radio program.

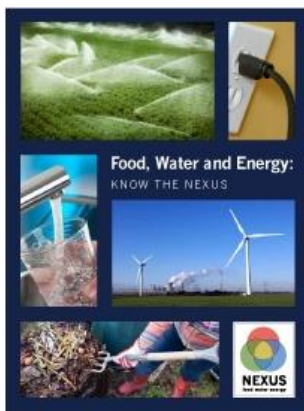


The global water crisis has dramatically deepened. The stage is being set for drought on an unprecedented scale, mass starvation, and the migration of millions of refugees leaving parched lands in search of water. This story need not end in tragedy, however. In the recently-published book [*Blue Future: Protecting Water for People and the Planet Forever*](#), Canadian water activist [Maude Barlow](#) offers solutions to the global water crisis based on four simple principles: *Water Is a Human Right* chronicles the long fight to have this right recognized and the powerful players still impeding this progress; *Water Is a Common Heritage and Public Trust* argues that water must not become a commodity to be bought and sold on the open market; *Water Has Rights Too* makes the case for the protection of source water and the need to make our human laws compatible with those of nature; and *Water Will Teach Us How to Live Together* urges us to come together around a common threat (the end of water) and find a way to live more lightly on this planet. Click [here](#) to order the book, [here](#)

for an article by Barlow about the book, and see the **Calendar** section above for her **March 20** book talk in Boston.

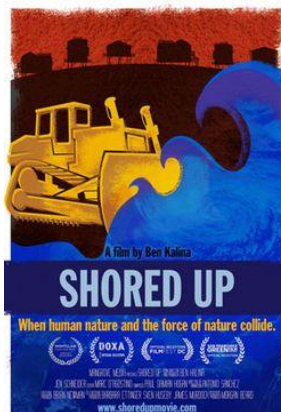


As ecosystems suffer across the globe and the climate crisis intensifies, environmental agencies worldwide use their authority to permit the very harm that they are supposed to prevent. Growing numbers of citizens now realize they must act before it is too late. In the recently-published book [*Nature's Trust: Environmental Law for a New Ecological Age*](#), author (and Professor of Law and Faculty Director of the Environmental and Natural Resources Law Center at the University of Oregon School of Law) [Mary Christina Wood](#) shares her view that much of current environmental law is dysfunctional and ineffective, and offers a transformative approach based on the "public trust doctrine". An ancient and enduring principle, the public trust doctrine empowers citizens to protect their inalienable property rights to crucial resources. This book shows how a trust principle can apply from the local to global level to protect the planet. Click [here](#) to order *Nature's Trust* and [here](#) to read a review of the book.

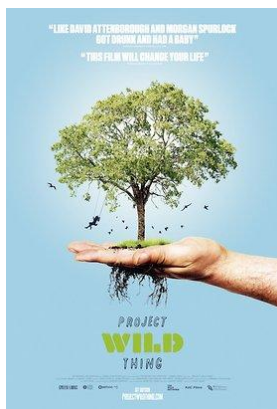


[*Meet the Nexus: How Food, Water and Energy are Connected*](#), a new guide from [GRACE Communications Foundation](#) and intended for a general audience, illustrates how everyday food, water and energy decisions have a profound effect on each other. The guide suggests nine simple choices anyone can make to use food, water and energy more sustainably in their daily lives, while saving some money in the process. The guide breaks down the nexus concept into easy-to-digest parts by revealing the hidden connections between food, water and energy in the grocery store, at home and in the

kitchen. It also highlights how some local governments and small businesses are making good nexus decisions that protect the environment and keep costs down. Click [here](#) to download the guide or read the accompanying press release, [here](#) to see *Know the Nexus* (pictured), a similar paper on the same subject, or [here](#) to read about other water-related initiatives supported by GRACE.

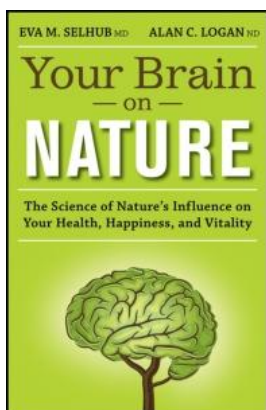


Recently [given an award](#) at the 2014 Sundance Film Festival, the documentary film [Shored Up](#) asks tough questions about our coastal communities and our relationship to the land. What will a rising sea do to our homes, our businesses, and the survival of our communities? Can we afford to pile enough sand on our shores to keep the ocean at bay? In Long Beach Island, New Jersey and the Outer Banks of North Carolina, surfers, politicians, scientists and residents are racing to answer these questions. Beach engineering has been our only approach so far, but is there something else out there to be explored? Our development of the coastlines put us in a tough predicament, and it's time to start looking for solutions. Click [here](#) to go to the movie's website, where you can view a trailer, see the schedule for upcoming screenings (or propose one yourself), or read reviews, or [here](#) to read an article about *Shored Up* and its director, Ben Kalina, appearing in the *Philanthropy News Digest*.



David Bond, a British filmmaker and father, noticed that his children were hooked on screens and didn't want to go outdoors. They wanted iPads, TV and plastic toys. The marketing departments of Apple, Disney and Mattel controlled his children better than he could. Determined to get them up and out, David appointed himself as a "Marketing Director for Nature". With the help of branding and outdoor experts, he developed and launched a nationwide marketing campaign to get British children outside. But the competition is not going to lie down and let some upstart with a free product steal their market. The new documentary film [Project Wild Thing](#) is the real-life story of Bond's determination to get children out and into the ultimate, free wonder-product: Nature. In a similar manner to what [Muddy Sneakers](#) and [Richard Louv's books](#) and the [Children and Nature Network](#) have done to raise the public consciousness of "nature deficit disorder" in the U.S. and beyond, *Project Wild Thing* and its [accompanying website](#) is doing for the U.K.

(click [here](#) for an example). Click [here](#) to view the movie's trailer, [here](#) for info on how to purchase a DVD of the film or view online, or write wildscreening@greenlions.com for more info.

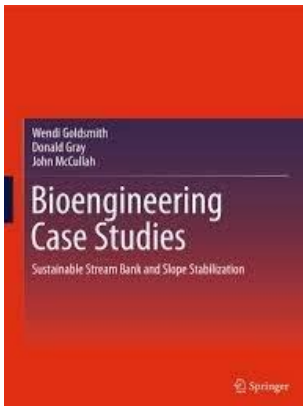


Scientific studies have shown that natural environments can have remarkable benefits for human health. Natural environments are more likely to promote positive emotions; and viewing and walking in nature have been associated with heightened physical and mental energy. Nature has also been found to have a positive impact on children who have been diagnosed with impulsivity, hyperactivity, and attention deficit disorder. In the 2012 book [Your Brain on Nature: The Science of Nature's Influence on Your Health, Happiness and Vitality](#), physician Eva Selhub and naturopath Alan Logan examine not only the effects of nature on the brain, but the ubiquitous influence of everyday technology on the brain, and how IT overload and its many distractions may even be changing it. Offering an antidote for the technology-addicted, the book outlines emerging nature-based therapies including ecotherapy, as well as practical strategies for improving your (and your children's) cognitive functioning, mental health, and physical well-being through

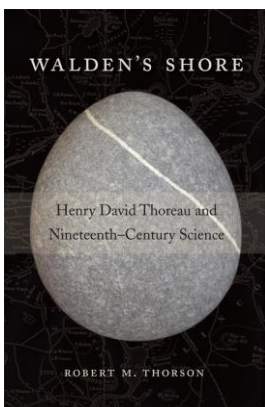
ecotherapeutic, nutritional, and behavioral means. A fascinating look at the effects that both nature and technology have on the brain's functioning and one's overall well-being, *Your Brain on Nature* is every tech-addict's guide to restoring health and balance in an increasingly IT-dependent world. Click [here](#) to order or [here](#) for a related article. [See also [Eight Ways That Parks Improve Your Health](#), recently produced by the [Trust For Public Land](#).]



Stream simulation design is a geomorphic, engineering, and ecologically based approach to designing road–stream crossings that creates a natural and dynamic channel through the crossing structure similar in dimensions and characteristics to the adjacent natural channel, allowing for unimpeded passage of aquatic organisms, debris, and water during various flow conditions, including floods. ***Flood Effects on Road–Stream Crossing Infrastructure: Economic and Ecological Benefits of Stream Simulation Designs***, the cover story in the [February, 2014 issue of Fisheries Magazine](#), published by the [American Fisheries Society](#), documents a positive correlation between the use of stream simulation design and a reduction in storm-related damage to road–stream crossings in Vermont, and vice versa (damage was greater where stream simulation design was not utilized). Click [here](#) to read the article (beginning on p.66) and [here](#) to read the press release.

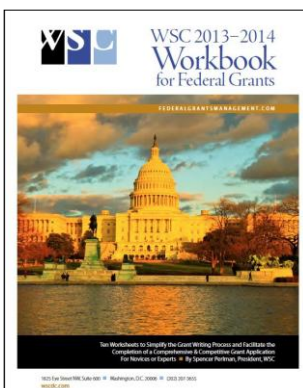


The new book [*Bioengineering Case Studies: Sustainable Stream Bank and Slope Stabilization*](#) describes and evaluates 30 projects from across the U.S. where bio-stabilization utilizing living and/or dead plant material was employed to address a detrimental naturally occurring process or byproduct of the built environment. Bio-stabilization (or soil bioengineering) refers to the use of plant materials, primarily live cuttings, arranged in the ground in different arrays to reinforce soils and protect upland slopes and/or streambanks against surficial erosion and shallow slope failures. Examples included in the book represent different regions of the country and their specific conditions and challenges. Each project is illustrated with a number of distinctive photographs to support the reader's understanding and showcase the wide scope of projects and techniques presented. Click [here](#) to order the book or for more info.

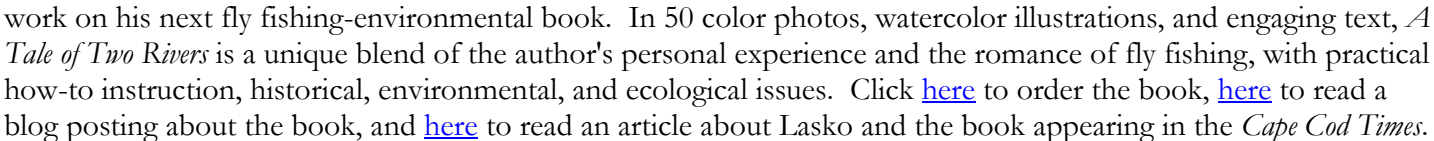
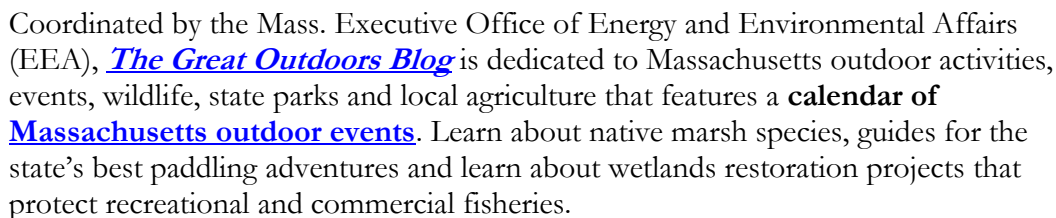
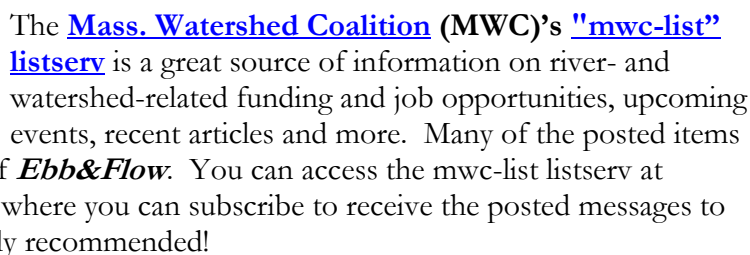


While Henry David Thoreau's interest and acuity in botany is well-known, in the recently-published book [*Walden's Shore: Henry David Thoreau and Nineteenth-Century Science*](#), author and UConn Professor of Geology [Robert M. Thorson](#) looks at Thoreau the rock and mineral collector, interpreter of landscapes, and field scientist, whose compass and measuring stick were as important to him as his plant press. Thorson's book examines Thoreau's understanding of the geodynamics of the living earth, and how his understanding informed his writing of *Walden*. Thoreau's astute observations occurred during a period of change in natural science in the nineteenth century, as Natural Theology gave way to modern secular science. That era saw one of the great blunders in the history of American science—the rejection of glacial theory. Thorson demonstrates just how close Thoreau came to discovering a “theory of everything” that could have explained most of the landscape he saw from the doorway of his cabin at Walden Pond. Click [here](#) to order the book or for more

info.



[*Washington Strategic Consulting 2013-2014 Workbook for Federal Grants*](#) is a unique interactive resource that facilitates the development of competitive federal grant applications. Grant writers of all skill levels and experience find the *Workbook* to be an indispensable tool. Developed by [Washington Strategic Consulting](#), the Workbook guides users through the process of gathering, organizing, and presenting the information required of a comprehensive grant application. The ten worksheets comprising the *Workbook* navigate users through questions and prompts that transform concepts into the detailed framework that forms a complete grant submission. Click [here](#) for a free preview or to purchase the *Workbook*.


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comes from the sale of [environmental license plates](#). Besides the “Right Whale and Roseate Tern” plate (click [here](#), see p. 13), sales of the “Fish and Wildlife” plate (click [here](#), see p.12), depicting a Brook Trout, and the Blackstone Valley plates (click [here](#), see p.10) help fund MET’s grant-making programs. (By the way, these three are the only Mass. specialty license plates that exclusively fund environmental programs). Getting an environmental plate is easy and can be done on-line by clicking [here](#), or in person at [your local Registry of Motor Vehicles office](#).

Does [your](#) car have an environmental license plate?

Division of Ecological Restoration Staff:

Tim Purinton, *Director* (on leave to attend graduate school)

Hunt Durey, *Acting Director*

Carrie Banks, *Stream Team and Westfield River Wild and Scenic Committee Coordinator*

Russell Cohen, *Rivers Advocate*

Michelle Craddock, *Flow Restoration Specialist*

Cindy Delpapa, *Stream Ecologist*

Eileen Goldberg, *Assistant Director*

Alex Hackman, *Project Manager*

Franz Ingelfinger, *Restoration Ecologist*

Georgeann Keer, *Wetland Scientist and Project Manager*

Beth Lambert, *River Restoration Program Manager*

Laila Parker, *Flow Restoration Program Manager*

Megan Sampson, *Program Administrator*

Nick Wildman, *Priority Projects Coordinator*

Commonwealth of Massachusetts

Deval L. Patrick, Governor

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Mary B. Griffin, Commissioner, Department of Fish and Game

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